April 12, 2000

United States Department of Interior
Bureau of Land Management - Vernal District Office
Attention: Margie Herrmann
170 South 500 East
Vernal, Utah 84078-2799

RE: Odekirk Springs 1A-35-8-17
NENE Section 35-T8S, R17E
Odekirk Springs 15-35-8-17
SWSE Section 35, T8S, R17E
Uintah County, Utah

Dear Ms. Herrmann:

Enclosed please find the two Applications for Permits to Drill the Odekirk Springs wells listed above, submitted in triplicate, for your review and approval. The Archeological Surveys and Paleontological Surveys for Section 35, T8S, R17E are also enclosed.

If you have any questions or require any additional information, please contact me or Jon Holst at (303) 893-0102.

Sincerely,

Joyce McGough
Regulatory Technician

Enclosures: Form 3160-3 and attachments (3 copies)

cc: State of Utah
Division of Oil, Gas & Mining
ATTN: Lisha Cordova
1594 West North Temple – Suite 1210
Post Office Box 145801
Salt Lake City, Utah 84114-5801

FORM 3160-3
(December 1990)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-40026

6. IF INDIAN, ALOTTEE OR TRIBE NAME: N/A

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

7. UNIT AGREEMENT NAME: N/A

1b. TYPE OF WELL

OIL WELL [X] GAS WELL [ ] OTHER [ ] SINGLE ZONE [X] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Odekirk Springs

2. NAME OF OPERATOR: Inland Production Company

9. WELL NO.: 15-35-8-17

3. ADDRESS OF OPERATOR: 410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102

10. FIELD AND POOL OR WILDCAT: Monument Butte

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At Surface: SWSE 660' FSL & 1980' FEL
At proposed Prod. Zone

4435716N
587767E

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 35-T8S-R17E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 15.2 miles from Myton, Utah

12. County: Uintah

13. STATE: UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.(Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
660' f/lse line & 660' f/unit line	640	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
Approximately 1320'	6500'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5054' GR

22. APPROX. DATE WORK WILL START*:

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

The Conditions of Approval are also attached.

RECEIVED
APR 14 2000
DIVISION OF
OIL, GAS AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED: Jon Holst TITLE: Counsel DATE: 4/6/00

(This space for Federal or State office use)

PERMIT NO. 43-047-33550 APPROVAL DATE:

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Federal Approval of this Action is Necessary

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY: TITLE: BRADLEY G. HILL RECLAMATION SPECIALIST III DATE: 6/12/00

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

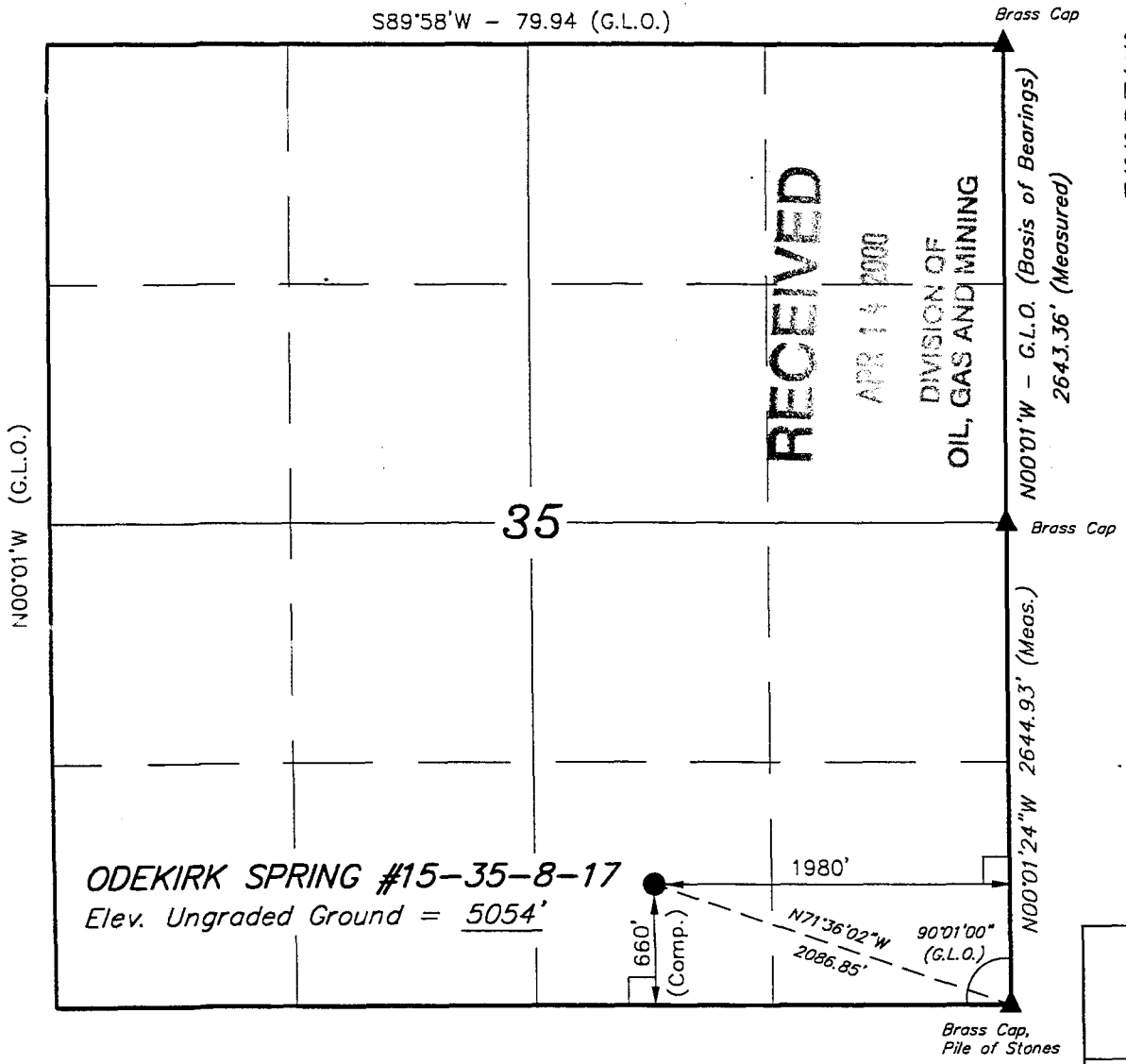
INLAND PRODUCTION CO.

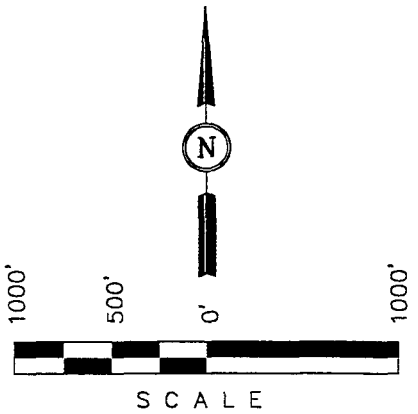
Well location, ODEKIRK SPRING #15-35-8-17, located as shown in the SW 1/4 SE 1/4 of Section 35, T8S, R17E, S.L.B.&M. Uintah, County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 35, T8S, R17E, S.L.B.&M. TAKEN FROM THE PARIETTE DRAW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5034 FEET.

T8S, R17E, S.L.B.&M.





CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	12-18-97	1-30-98
PARTY: G.S. K.R. J.F. C.B.T.	REFERENCES: G.L.O. PLAT	
WEATHER: COOL	FILE: INLAND PRODUCTION CO.	

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 15-35-8-17
SW/SE SEC 35, T8S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta Formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1550'
Green River	1550'
Wasatch	6500'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1550' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

Please refer to the Monument Butte Field SOP.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Monument Butte Field SOP. See Exhibit "F".

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Monument Butte Field SOP.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Monument Butte Field SOP.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 15-35-8-17
SW/SE SEC 35, T8S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site for the Odekirk Springs #15-35-8-17, SW/SE of Section 35, T8S, R17E, Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 approximately 1.5 miles to the junction of this highway and Utah State Highway 216; proceed southerly and then southeasterly along Utah State Highway 216 approximately 10.6 miles; then proceed northeasterly 3.1 miles to the start of the proposed access road; proceed southeasterly approximately 0.3 miles to the proposed well site.

2. **PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

3. **LOCATION OF EXISTING WELLS**

Refer to Exhibit "D"

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. **LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. **SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP. See Exhibit "E".

RECEIVED
APR 14 2000
DIVISION OF
OIL, GAS AND MINING

8. ANCILLARY FACILITIES:

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT:

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s). Refer to Exhibits "E" and "E-1".

10. PLANS FOR RESTORATION OF SURFACE:

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP: Bureau of Land Management

12. OTHER ADDITIONAL INFORMATION:

The Archaeological Cultural Resource Survey is attached.

Inland Production Company requests a 60' ROW for the Odekirk Springs #15-35-8-17 to allow for construction of a 6" poly gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C".**

Inland Production Company also requests a 60' ROW be granted for the Odekirk Springs #15-35-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C".**

13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

Representative

Name:	Jon Holst
Address:	410 Seventeenth Street
	Suite 700
	Denver, CO 80202
Telephone:	(303) 893-0102

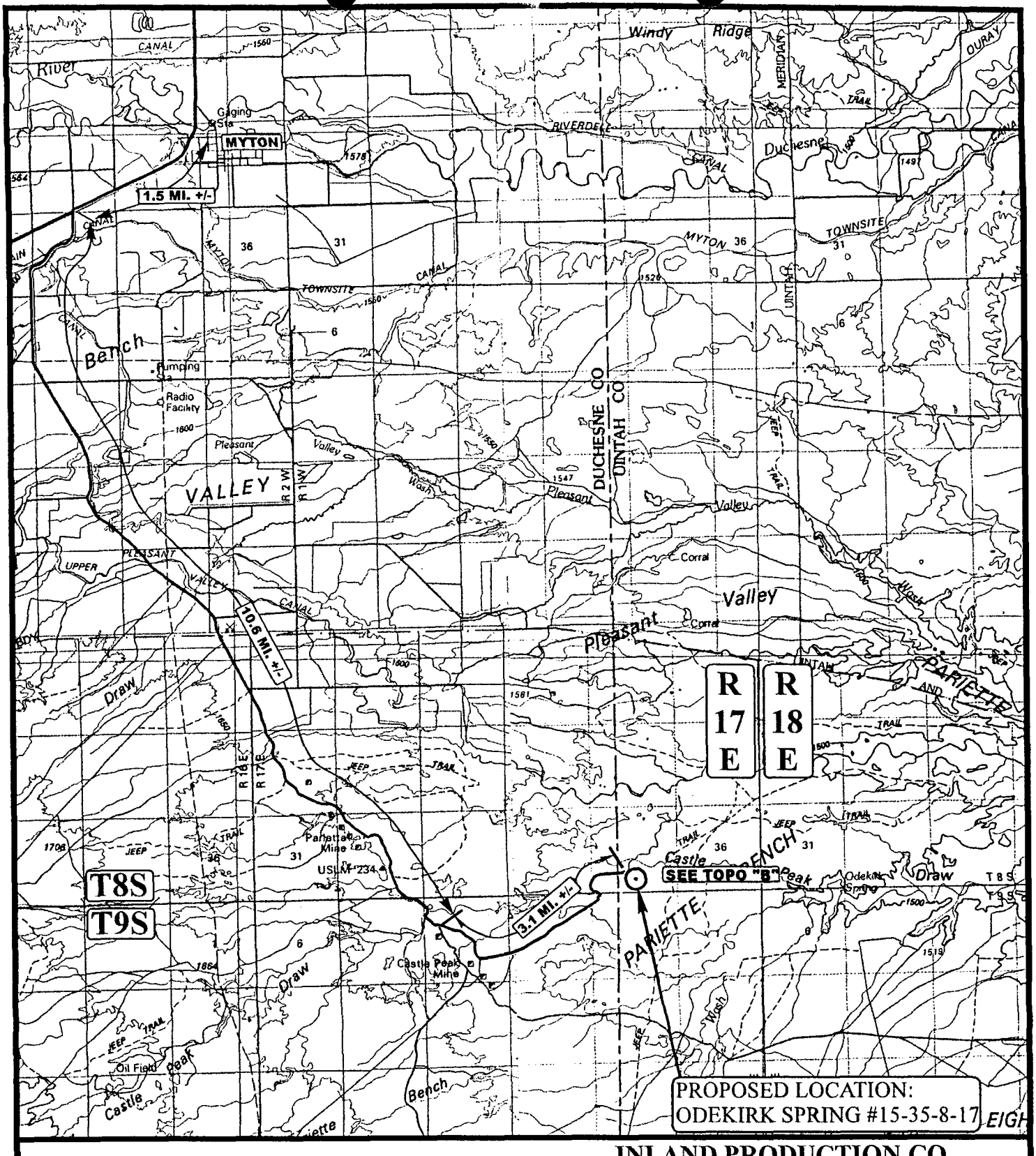
Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of the Odekirk Springs #15-35-8-17, SW/SE Sec. 35, T8S, R17E, Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

4/06/00
Date

Jon Holst
Counsel



PROPOSED LOCATION

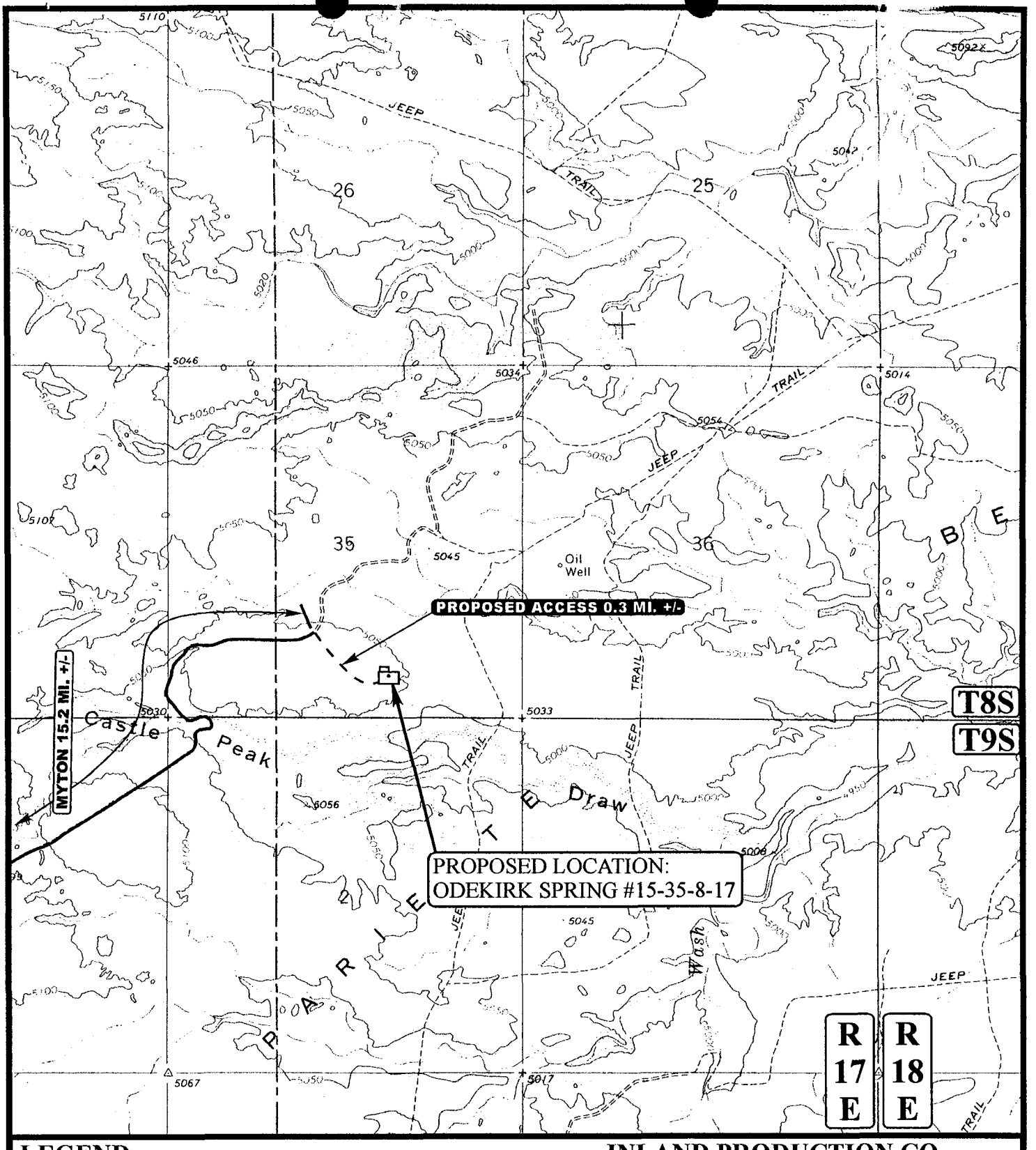
N

INLAND PRODUCTION CO.

ODEKIRK SPRING #15-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FSL 1980' FEL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	1 MONTH	29 DAY	98 YEAR
SCALE: 1 : 100,000	DRAWN BY: C.G.	REVISED: 00-00-00	A TOPO



LEGEND:

PROPOSED ACCESS ROAD

EXISTING ROAD

N

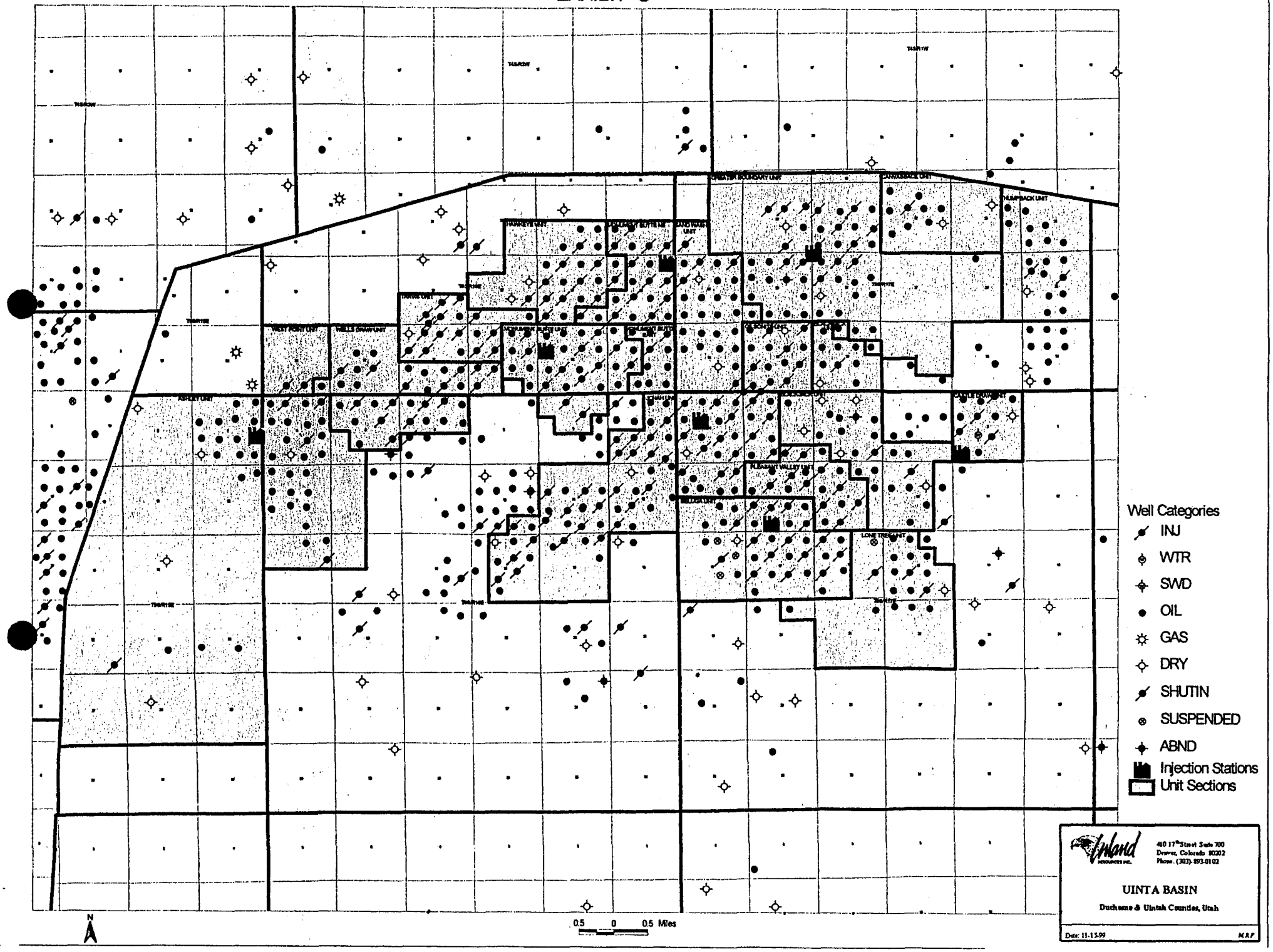
INLAND PRODUCTION CO.

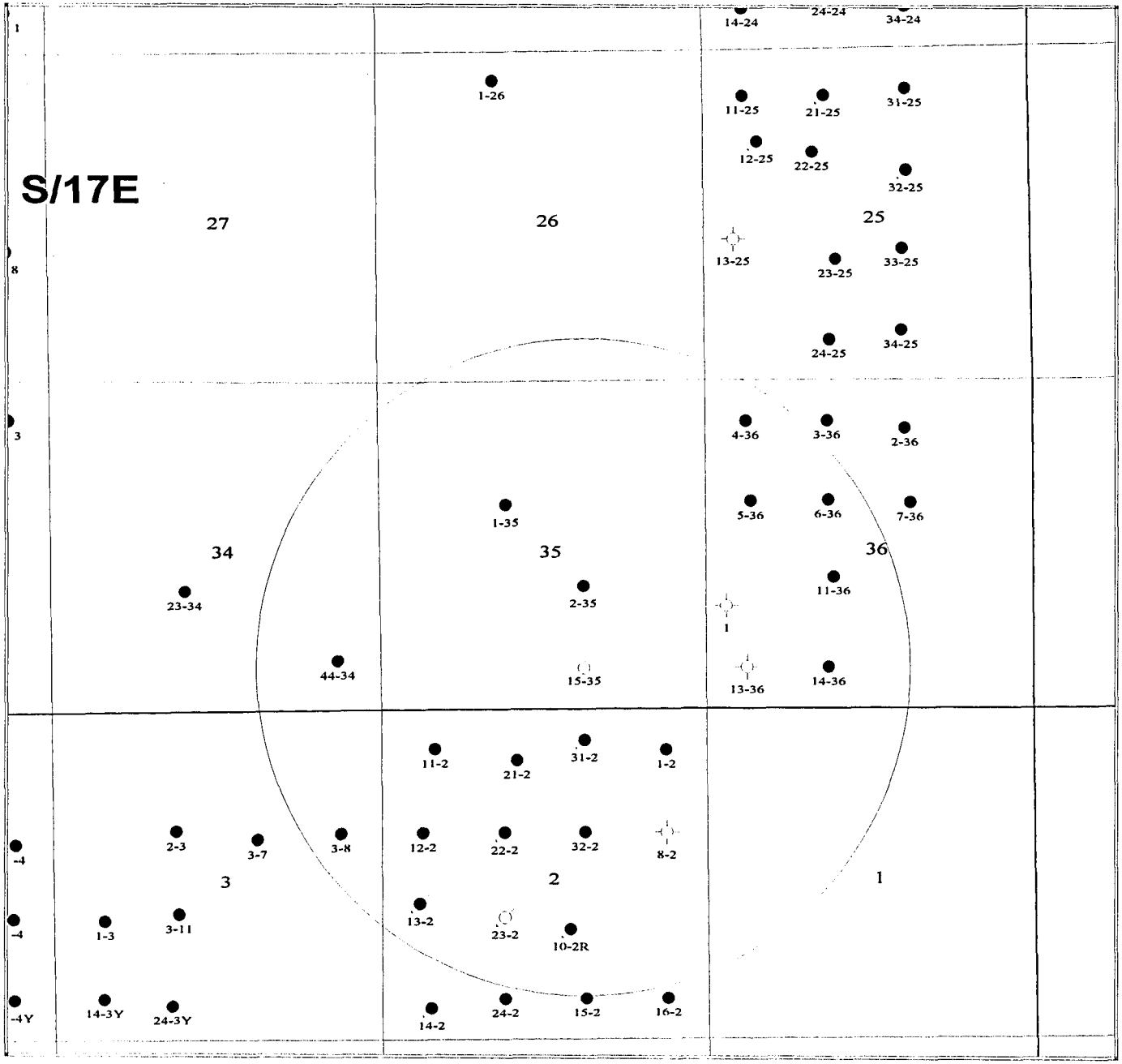
ODEKIRK SPRING #15-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FSL 1980' FEL

UELS
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	1 MONTH	29 DAY	98 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.G.	REVISED: 00-00-00		

EXHIBIT "C"


Well Categories
INJ
WTR
SWD
OIL
GAS
DRY
SHUTIN
SUSPENDED
ABND
Injection Stations
Unit Sections
N
0.5 0 0.5 Miles
Inland Resources Inc.
410 17th Street Suite 700
Denver, Colorado 80202
Phone: (303) 893-0102
UINTA BASIN
Duchesne & Uintah Counties, Utah
Date: 11-15-99
M.R.F



N

EXHIBIT D

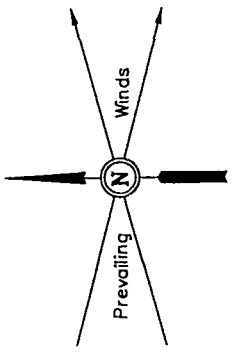
INLAND PRODUCTION COMPANY		
One Mile Radius Odekirk Spring #15-35-8-17		
Josh Axelson	Scale: 1:30157.64	3/31/2000

EXHIBIT "E"

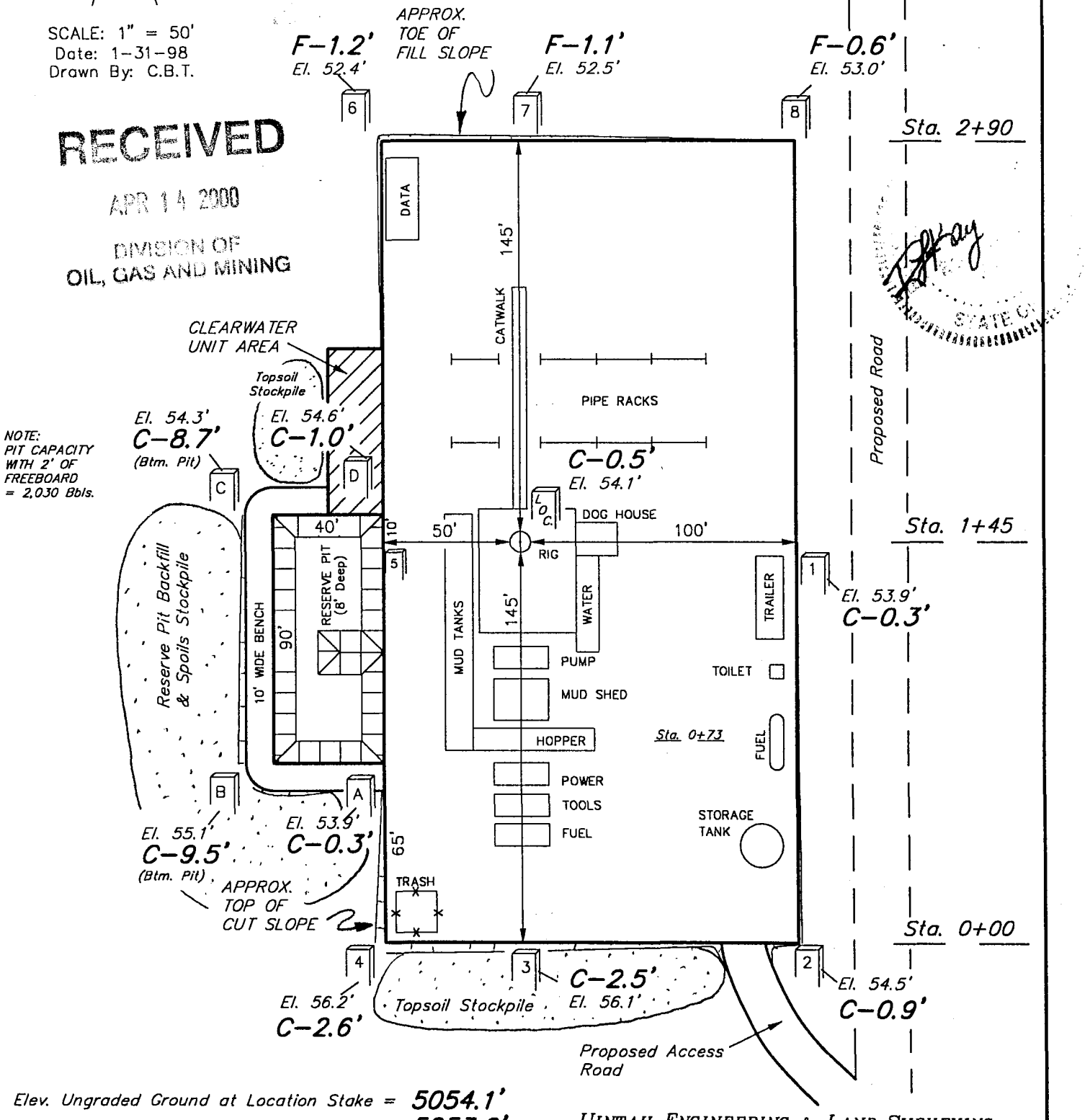
INLAND PRODUCTION CO.

LOCATION LAYOUT FOR

ODEKIRK SPRING #15-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FSL 1980' FEL



SCALE: 1" = 50'
Date: 1-31-98
Drawn By: C.B.T.



Elev. Ungraded Ground at Location Stake = 5054.1'

Elev. Graded Ground at Location Stake = 5053.6'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

EXHIBIT "E-1"

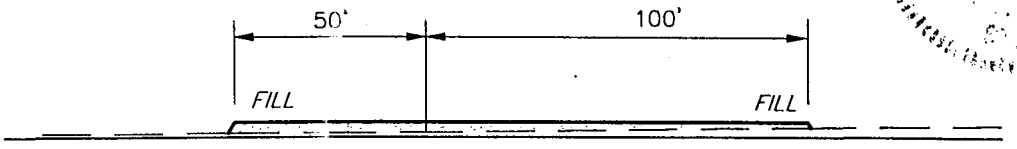
INLAND PRODUCTION CO.

TYPICAL CROSS SECTIONS FOR

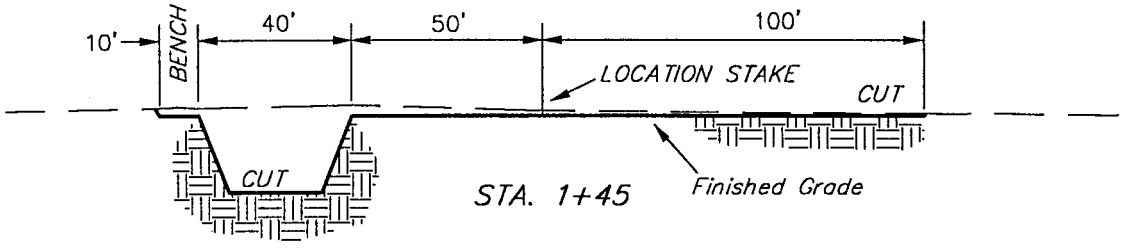
ODEKIRK SPRING #15-35-8-17
SECTION 35, T8S, R17E, S.L.B.&M.
660' FSL 1980' FEL

1" = 20'
X-Section Scale
1" = 50'

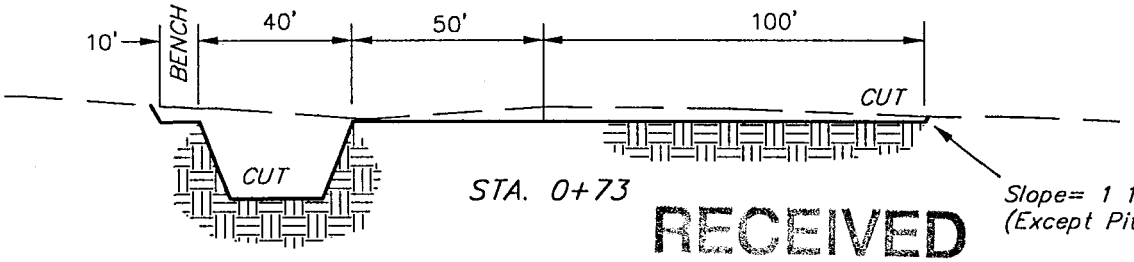
Date: 1-31-98
Drawn By: C.B.T.



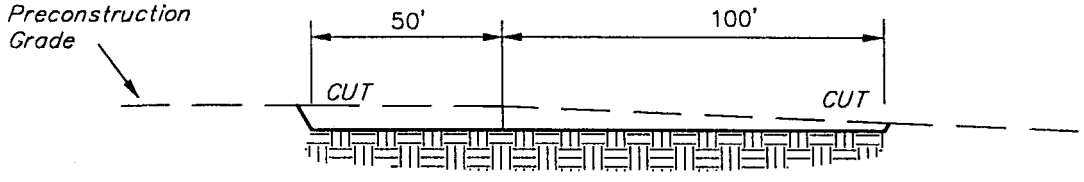
STA. 2+90



STA. 1+45



STA. 0+73



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT

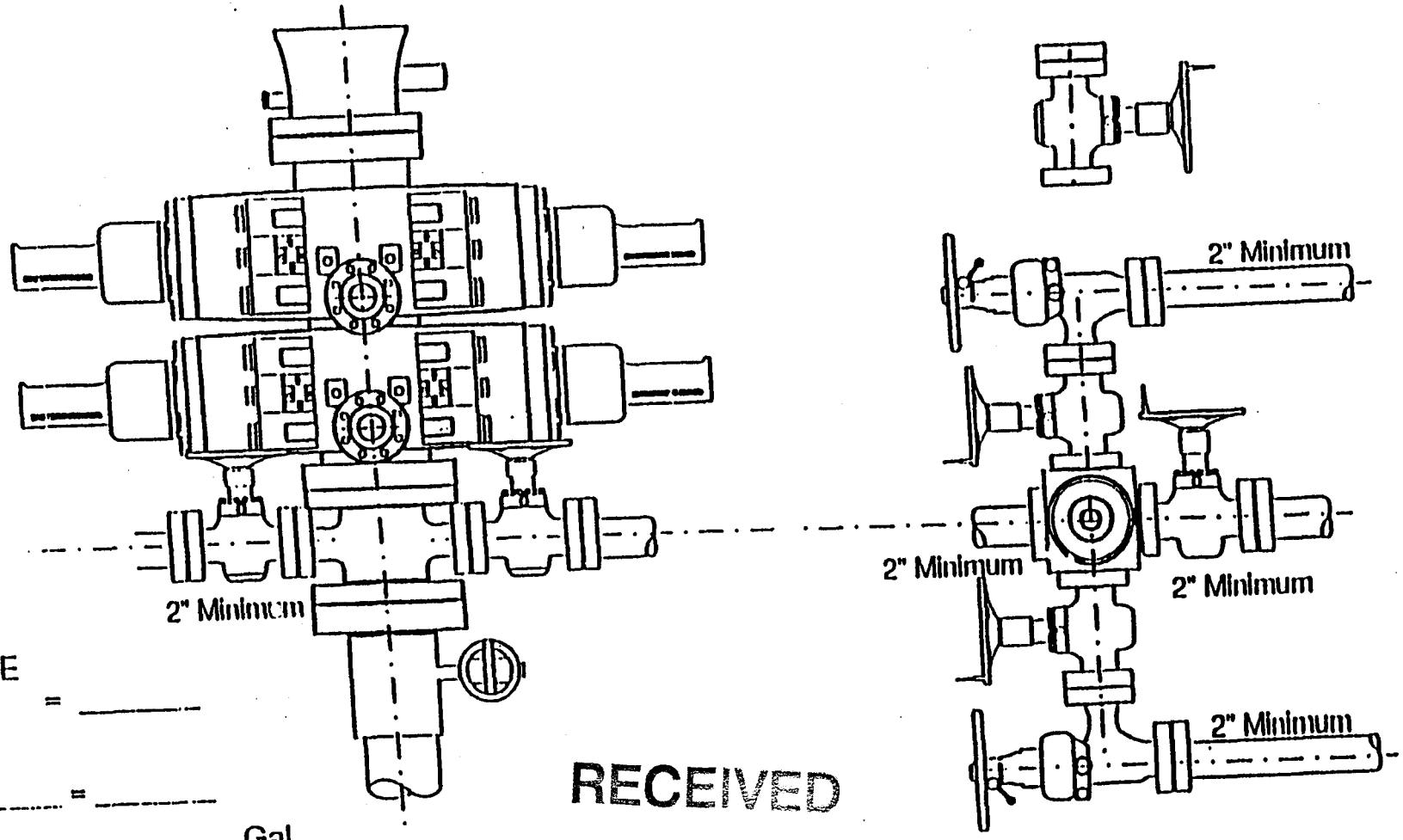
(6") Topsoil Stripping	= 870	Cu. Yds.
Remaining Location	= 1,410	Cu. Yds.
TOTAL CUT	= 2,280	CU.YDS.
FILL	= 610	CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,640	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,200	Cu. Yds.
EXCESS MATERIAL After Reserve Pit is Backfilled & Topsoil is Re-distributed	= 440	Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

B.O.P.

2-M SYSTEM



O CLOSE
ar BOP = _____
ype BOP
Rams x _____ = _____
= _____Gal.

____ x 2 = _____ Total Gal.

ıding off to the next higher
ıment of 10 gal. would require
___Gal. (total fluid & nitro volume)

EXHIBIT F

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Odekirk Springs 15-35-8-17

API Number:

Lease Number: UTU-40026

Location: SWSE Section 35, T8S, R17E

GENERAL

Access well from the existing gravel road located immediately south of the proposed well location.

CULTURAL RESOURCES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

PALEONTOLOGICAL RESOURCES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

SOILS, WATERSHEDS, AND FLOODPLAINS

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

WILDLIFE AND FISHERIES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

RECEIVED

APR 14 2000

DIVISION OF
OIL, GAS AND MINING

THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

FERRUGINOUS HAWK: No new construction or surface disturbing activities will be allowed between March 1 and May 30, 2000, due to the location's proximity (0.5 mile) to a ferruginous hawk nest. If the nest becomes occupied in spring of 2000, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest has been unoccupied for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

OTHER

INLAND RESOURCES INC.
410 Seventeenth Street, Suite 700
Denver, Colorado 80202

ARCHAEOLOGICAL REPORT

Odekirk Springs #15-35-8-17
SW SE Sec. 35-T8S-R17E
Uintah County, Utah

CULTURAL RESOURCE EVALUATION OF A SERIES OF POTENTIAL DRILLING LOCALITIES IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE AND UINTAH COUNTIES, UTAH

Report Prepared for

INLAND RESOURCES, Inc.

AERC Project 1595 (IPC98-2)
Utah State Project No. UT-98-AF-0097b,s

F. Richard Hauck, Ph.D.
Principal Investigator

Author of Report:
F.R. Hauck

Archeological-Environmental Research Corporation
Bountiful, Utah 84011-0853
181 North 200 West, Suite 5

February 24, 1998

Abstract

An intensive cultural resource examination has been conducted for Inland Production Company of eight potential well pad locations and associated access routes in the Wells Draw, Pariette Bench, and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah (see Maps 1 through 4). The purpose of this report is to detail the result of this evaluation. A total of 176 acres was examined for cultural resource presence. All the proposed development areas associated with these well locations are situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah, or, on Utah State Lands administrated by the State Division of School Trust Lands.

Field examinations were on January 29, 30 and February 11 and 19, 1998. AERC archaeologists, Marcel Corbeil, Kris Kunkel, and Alan Hutchinson conducted the field survey program. This report entails only those portions of the project area which did not contain archaeological resources (see Maps 2 through 4). Those parcels inventoried during this phase in which cultural sites were found, will be reported in the spring of 1998.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by well location development and access/pipeline route corridor development within the acreage cleared and reported within this document.

AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

Table of Contents

List of Maps

GENERAL INFORMATION

On January 29 and 30, and February 11 and 19, 1989, AERC archaeologists Marcel Corbeil, Kris Kunkel, and Alan Hutchinson conducted intensive cultural resource evaluations of eight proposed well locations and associated access routes in the Wells Draw, Pariette Bench, and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah (see Maps 1 through 4). A total of 176 acres was examined for cultural resource presence.

All the proposed development areas associated with these survey locations are situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah, except for Units 13-36, 14-36 and a 60 acre parcel situated in the southern half of the SE quarter of Section 36 (Township 8 South, Range 17 East) which are on Utah State Lands administrated by the Utah State Division of School Trust Lands in Salt Lake City, Utah.

The purpose of this field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf. Title 36 CFR 60.6). The future development of these proposed well locations and associated access routes requires an archaeological evaluation in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979, the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

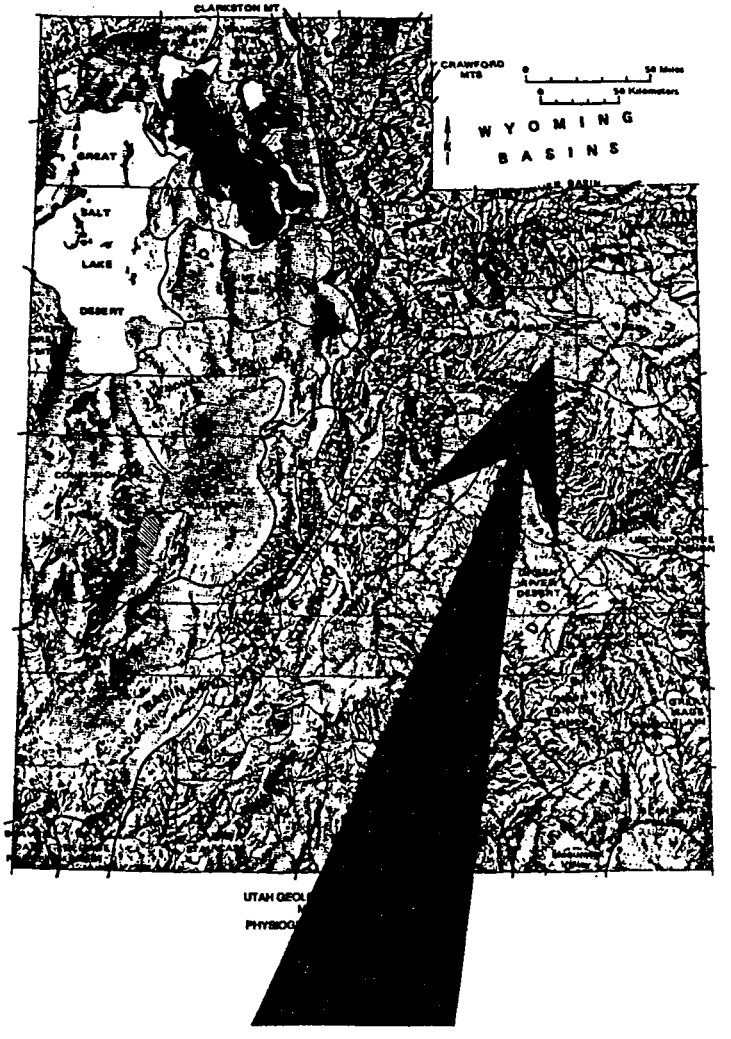
In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Bureau of Land Management, Vernal District Office and to the Utah State Antiquities Section.

Project Location

The project is located in the Wells Draw, Pariette Bench, and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah. The various project areas are situated on the Myton SW, Myton SE and Pariette Draw SW 7.5 minute quads. The inventoried areas and surveyed well locations and acreages are located as follows:

MAP 1
PROJECT AREA FOR THE INLAND 1998 DEVELOPMENT PROGRAM

PROJECT: IPC98-2
SCALE: 1: 200,650
DATE: 2/ 23/ 98



PROJECT AREA

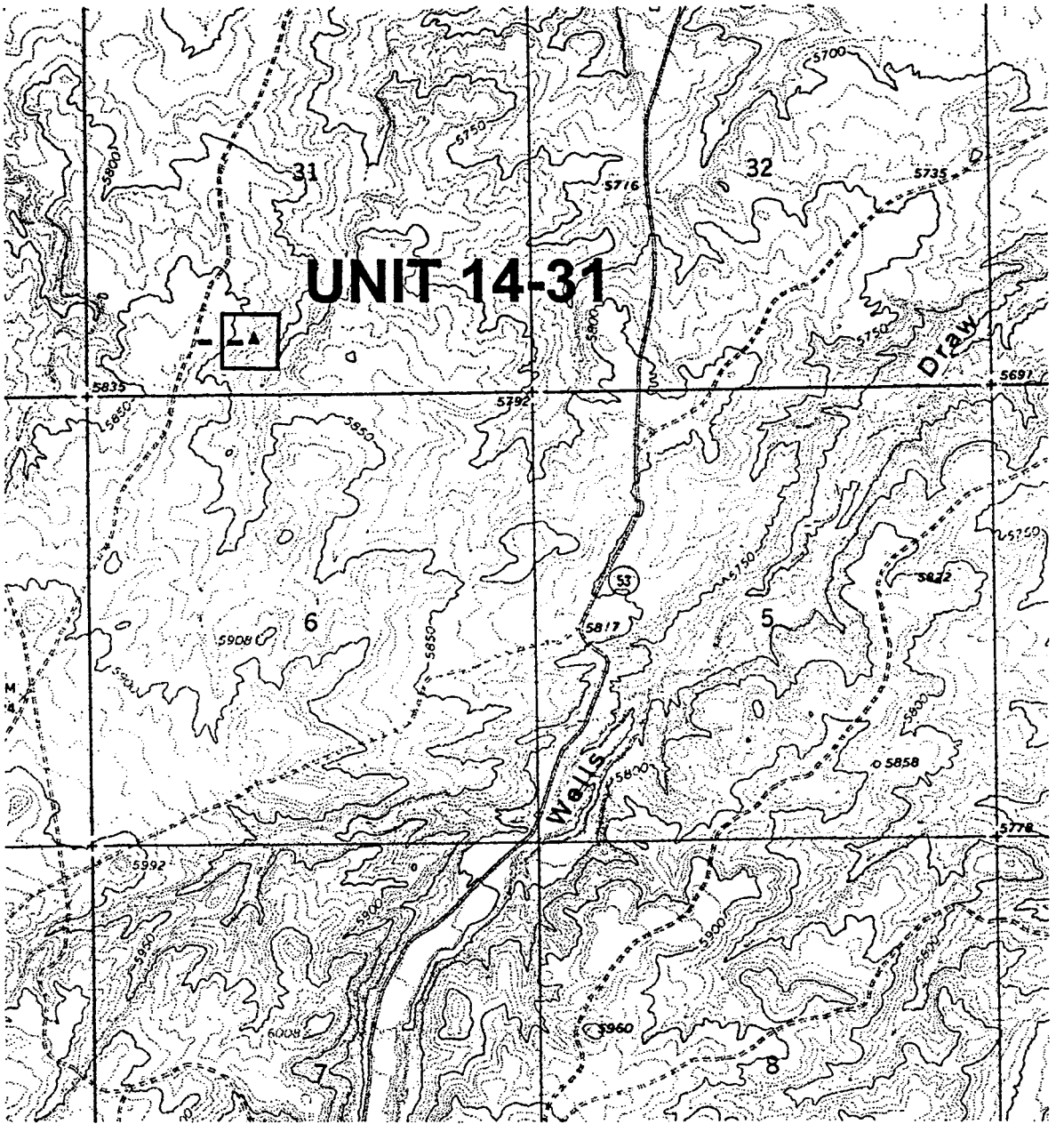
TOWNSHIP: multiple
RANGE: multiple
MERIDIAN: multiple

Utah Geological and Mineral Survey
Map 43 1977

Physiographic Subdivisions of Utah
by W.L. Stokes

MAP 2
CULTURAL RESOURCE SURVEY OF INLAND UNIT 14-31 IN THE WELLS DRAW LOCALITY OF DUCHESNE CO., UTAH

PROJECT: IPC98-2
SCALE: 1:24,000
QUAD: Myton SW
DATE: February 23, 1998



LEGEND

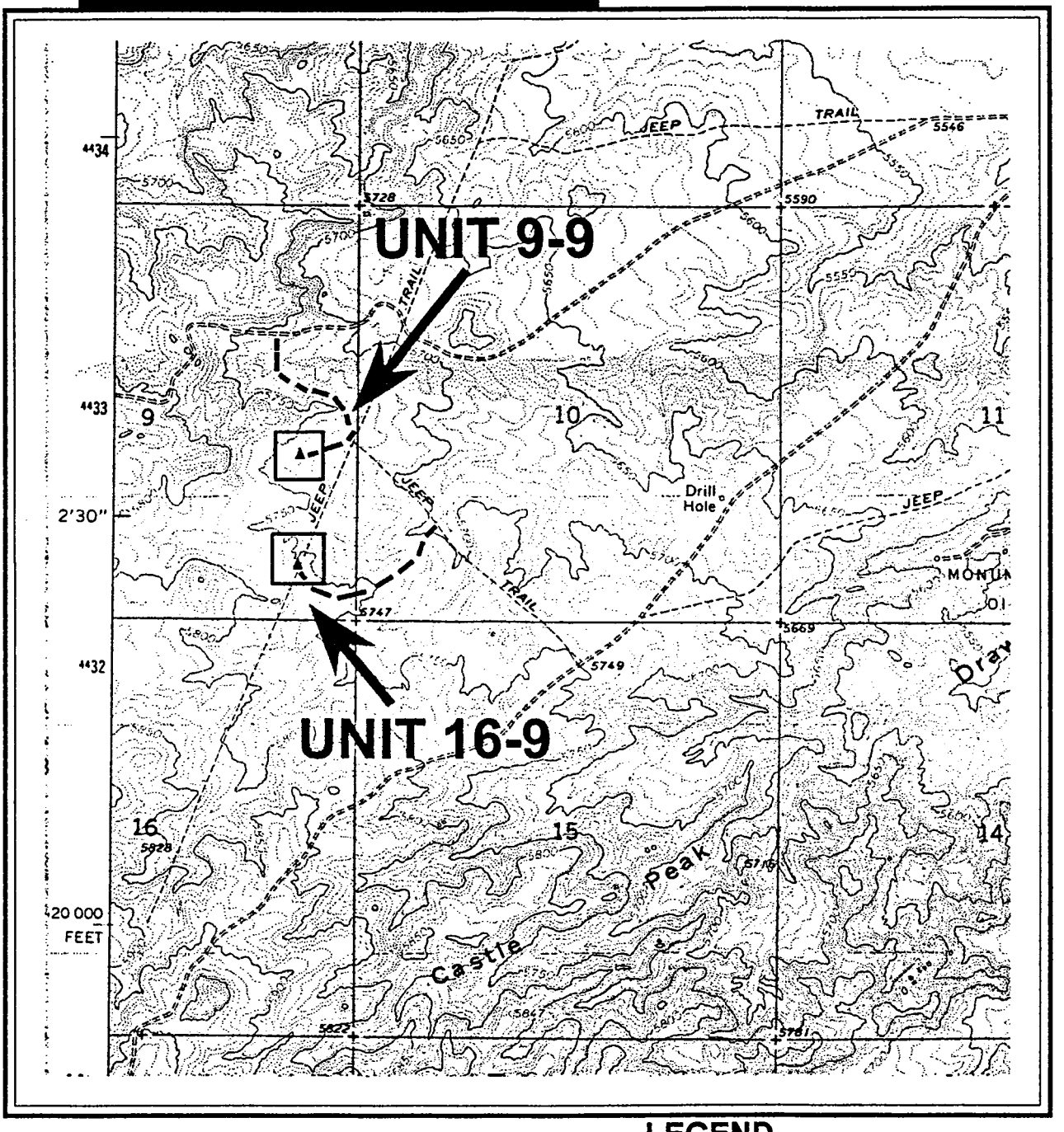
- WELL LOCATION
- 10 ACRE SURVEY AREA
- ACCESS ROUTE

UTAH

TOWNSHIP: 8 South
RANGE: 16 East
MERIDIAN: SL B. & M.

MAP 3
CULTURAL RESOURCE SURVEY OF INLAND UNITS 9-9 & 16-9 IN THE CASTLE PEAK DRAW LOCALITY OF DUCHESNE CO., UTAH

PROJECT: IPC98-2
SCALE: 1:24,000
QUAD: Myton SE
DATE: February 23, 1998



LEGEND

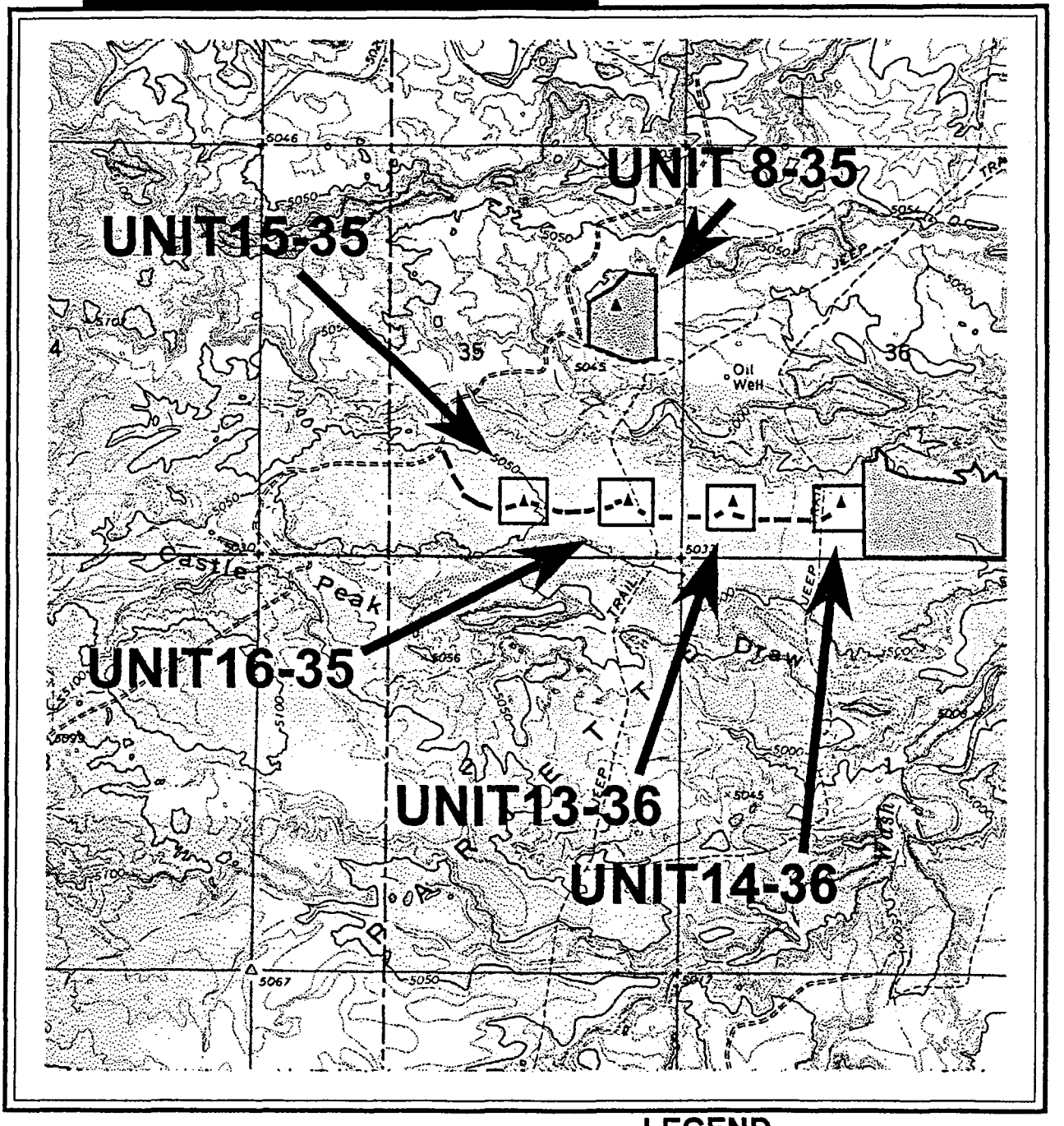
- △ WELL LOCATION
- 10 ACRE SURVEY AREA
- ACCESS ROUTE

UTAH

TOWNSHIP: 9 South
RANGE: 16 East
MERIDIAN: SL B. & M.

MAP 4
CULTURAL RESOURCE SURVEY OF INLAND UNITS 8-35, 15-35, 16-35 13-36, AND 14-36 IN THE CASTLE PEAK DRAW LOCALITY OF UINTAH COUNTY, UTAH

PROJECT: IPC98-2
SCALE: 1:24,000
QUAD: Pariette Draw SW
DATE: February 23, 1998



UTAH

TOWNSHIP: 8 & 9 South
RANGE: 17 East
MERIDIAN: SL B. & M.

LEGEND

- 10 ACRE SURVEY AREA
- BULK ACREAGE SURVEY
- WELL LOCATION
- ACCESS ROUTE

Ashley Unit (see Map 2) The single well location in this unit consisted of:

Unit 14-31 — A ten acre area was evaluated around the center stake and a .2 mile-long, 100 foot-wide access route was examined linking that location with an existing roadway Unit 14-31 is situated in the SE 1/4 of the SW 1/4 of Section 31, Township 8 South, Range 16 East.

South Wells Draw Unit (see Map 3) The South Wells Draw inventory included the following well locations:

Unit 9-9 — A ten acre area was evaluated around the center stake and a .47 mile-long, 100 foot-wide access route was examined linking that location with an existing roadway to the north. Unit 9-9 is situated in the NE 1/4 of the SE 1/4 of Section 9, Township 9 South, Range 16 East.

Unit 16-9 — A ten acre area was evaluated around the center stake and a .57 mile-long, 100 foot-wide access route was examined linking that location with an existing roadway to the east. Unit 16-9 is situated in the SE 1/4 of the SE 1/4 of Section 9, Township 9 South, Range 16 East.

Odekirk Spring Unit (see Map 4) The Odekirk Spring inventory included the following well locations which are situated on both BLM and Utah Trust Lands:

Unit 8-35 — A 20 acre area was evaluated adjacent to the center stake. The existing roadway flanks the southern periphery of the parcel. Unit 8-35 is situated on BLM lands in the SE 1/4 of the NE 1/4 of Section 35, Township 8 South, Range 17 East.

Unit 15-35 — A ten acre area was evaluated around the center stake. Several access corridors (.34 mile long) were evaluated from the existing roadway to the northwest of this location to the pad area due to observing several isolated tool fragments or "tap and test" flakes within the original (and presently flagged) access route, which is shown on Map 4. To avoid these materials, the archaeologists extended the width of the corridor to the south. The new corridor will be flagged in the March, once the principal investigator has had the opportunity to review the relationship of the observed cultural materials. Unit 15-35 is situated in the SW 1/4 of the SE 1/4 of Section 35, Township 8 South, Range 17 East.

Unit 16-35 — A ten acre area was evaluated around the center stake. An access corridor (.19 mile long) was evaluated associated with Unit 15-35 to the west of this location. Unit 16-35 is situated in the SE 1/4 of the SE 1/4 of Section 35, Township 8 South, Range 17 East.

Unit 13-36 — A ten acre area was evaluated around the center stake. An access corridor (.19 mile long) was evaluated associated with Unit 16-35 to the west of this location. Unit 13-36 is situated on Utah State Lands in the SW 1/4 of the SW 1/4 of Section 36, Township 8 South, Range 17 East.

Unit 14-36 — A ten acre area was evaluated around the center stake. An access corridor (.19 mile long) was evaluated associated with Unit 13-36 to the west of this location. Unit 14-36 is situated on Utah State Lands in the SE 1/4 of the SW 1/4 of Section 36, Township 8 South, Range 17 East.

Sixty Acre Bulk Survey — In addition to these two ten acre parcels evaluated on Utah State Lands in Section 36, a 60 acre parcel comprising the southern half of the southern half of the SE 1/4 of Section 36 was surveyed by the team. One isolated tool fragment was observed within this parcel; a careful evaluation of the surface around the artifact failed to identify any other artifacts or features in the immediate locality.

Environmental Description

The various project areas associated with this report are within the 5000 to 5700 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are affiliated with the entire project area.

The vegetation in the project area includes rabbit brush *(Chrysothamnus spp.)*, sagebrush *(Artemesia spp.)*, Winterfat (*Ceratoides lanata*) greasewood *(Sarcobatus spp.)*, Sulphurflower Buckwheat (*Eriogonum umbellatum*) Mormon tea *(Ephedra viridis)*, *Halogeton*, Mountain Mahogany *(Cercocarpus spp.)*, saltbush *(Atriplex canescens)*, and a variety of grasses.

The geological associations within the project area consist of fluvial lake deposits which correlate with the Uintah Formation of Tertiary age.

PREVIOUS RESEARCH IN THE LOCALITY

File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on November 6, 1997 in association with the primary project as requested by Inland Resources, Inc. A similar search was conducted in the Vernal District Office of the BLM on November 10, 1997. The National Register of Historic Places was consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the general locality. Many of these prehistoric resources were identified and recorded by AERC and other archaeologists and consultants during oil and gas exploration inventories (cf. Fike and Phillips 1984, Hauck and Weder 1989, Hauck and Hadden 1993, 1994, 1995, 1996, 1997).

Prehistory of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 - 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. - 300 A.D.), and Formative (ca. A.D. 400 - 1100) stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 - 1850) to conclude in the Historic-Modern Period which was initiated with the incursion of the Euro-American trappers, explorers and settlers. Basically, each cultural stage -- with the possible exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see ***Archaeological Evaluations in the Northern Colorado Plateau Cultural Area*** (Hauck 1991).

Site Potential in the Project Development Zone

Previous archaeological evaluations in the general project area have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places. The majority of these sites are lithic scatters containing cobble reduction materials. Many of these quarry sites are of the "tap and test" variety, and extend for tens of hundreds of meters. Open occupations are also frequently being identified in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Plains Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the majority of Late Prehistoric (Numic) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e. Fremont, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and their primary tributary canyons.

Site density in certain portions of the region appears to range from one to four sites per section. These densities increase in the canyon bottoms due to Ute rock art loci. Recent evaluations indicate that the site densities may reach 8 to 12 sites per section in certain localities on the upper benches which were apparently favored for hunting, lithic resource procurement, and camping. Prehistoric sites on the rangeland benches appear to be associated with water courses and aeolian deposits. In the Wells Draw and Castle Peak Draw localities, site density appears to be very high, especially in areas near water courses and seep sources.

FIELD EVALUATIONS

Methodology

Intensive evaluations consisted of the archaeologists walking a series of 15 to 20 meter-wide transects within the various parcels associated with the surveyed well locations and along the 100 foot-wide access routes. Thus, 90 acres associated with the eight well pads, a 60 acre parcel, and ca. 26 acres associated with the access route corridors were inventoried relative to this project. A total of some 176 acres was evaluated during this project.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Due to the on-set of winter conditions, the recording of archaeological sites identified during these evaluations has been postponed for several months. The final report for this project, to be released in the Spring of 1998, will document these resources. Hence, this preliminary report is provided to enable clearance of the parcels that lack cultural resource presence so that Inland Production Company can successfully conduct its drilling program through these interim winter months.

In certain instances, the cultural sites are evaluated for depth potential utilizing AERC's portable Ground Penetrating Radar (GPR) computerized system (SIR-2 manufactured by Geophysical Survey Systems, Inc. of North Salem, New Hampshire). GPR was not used during this initial project phase but may be employed in the Spring of 1998 to facilitate the significance assessments of certain cultural sites.

Following these field analyses, cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are developed by the principal investigator in consultation with both the client and relevant governmental agencies as a means of preserving significant resources which may be situated within the development zone.

Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

The quality of significance in American . . . archaeology . . . and culture is present in . . . sites . . . that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

a. That are associated with events that have made a significant contribution to the broad patterns of our history; or

b. that are associated with the lives of persons significant in our past; or

c. that embody the distinctive characteristics of a type, period, or method of construction . . . ; or

d. that have yielded, or may be likely to yield, information important in prehistory or history.

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Register of Historic Places.

Results of the Inventory

No newly identified prehistoric cultural resource activity loci were observed and recorded during the archaeological evaluations of the parcels shown on Maps 2, 3 and 4 (with the possible exception of isolated materials associated with the original access route into Unit 15-35 to be reported by AERC in the future).

No previously identified and recorded significant National Register eligible sites were noted during the survey being reported in this document.

No paleontological loci were observed during the survey. A paleontological report will be appended to the final AERC report for this project.

No diagnostic isolated artifacts were observed and recorded during the evaluations.

CONCLUSION AND RECOMMENDATIONS

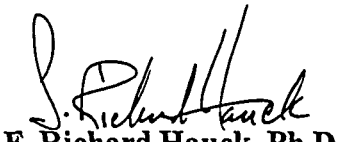
No known cultural resources will be adversely impacted during the development and operation of Inland Resources, Inc.'s well locations Units 14-31, 9-9, 16-9, 8-35, 15-35, 16-35, 13-36, 14-36 and the bulk acreage area (in the southern half of the SE 1/4 of Section 36, Township 8 South, Range 17 East) or their respective access routes as shown on Maps 2, 3, and 4 in this document.

AERC recommends that a cultural resource clearance be granted to Inland Resources Inc. relative to the development of these eight proposed locations based upon adherence to the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the surveyed zones, to the flagged areas and corridors examined as referenced in this report, and to the existing roadways;

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area; and

3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.



F. Richard Hauck, Ph.D.
President and Principal Investigator

References

Fike, Richard E. and H. Blaine Phillips

1984 *A Nineteenth Century Ute Burial from Northeastern Utah,* Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.

Hauck, F. Richard

1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation, Bountiful.

1982 Cultural Resource Inventory of Five Proposed Well Locations and Access Roads in the Eightmile Flat and Castle Peak Localities of Uintah and Duchesne Counties, Utah. Report prepared for Diamond Shamrock, DS-82-5, Archeological-Environmental Research Corporation, Bountiful.

1984a "Excavation" (in) *A Nineteenth Century Ute Burial From Northeast Utah,* Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.

1984b Cultural Resource Evaluations of Seven Proposed Well Locations Situated in the Castle Peak Draw Locality of Uintah County, Utah. Report prepared for Overthrust Oil and Royalty Company, OORC-84-1, Archeological-Environmental Research Corporation, Bountiful.

1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No.45, Archeological-Environmental Research Corporation, Bountiful.

1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation, Bountiful.

1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-9204, Archeological-Environmental Research Corporation, Bountiful.

1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation, Bountiful.

1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation, Bountiful.

1992e Cultural Resource Evaluation of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation, Bountiful.

1993a Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-1, Archeological-Environmental Research Corporation, Bountiful.

1993b Addendum to Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-2, Archeological-Environmental Research Corporation, Bountiful.

1993c Cultural Resource Evaluation of a Pipeline Corridor Situated in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-3, Archeological-Environmental Research Corporation, Bountiful.

1996a Cultural Resource Evaluation of Four Proposed Well Locations and Access Routes in the Castle Peak Draw Locality - Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-95-8A, Archeological-Environmental Research Corporation, Bountiful.

1996b Cultural Resource Evaluation of 13 Proposed Well Locations and Access Routes in the Castle Peak Draw Locality of Uintah and Duchesne Counties, Utah. Report prepared for Balcron Oil Company, BLCR-96-8B, Archeological-Environmental Research Corporation, Bountiful.

1996c Cultural Resource Evaluation of Two Proposed Well Locations in the Castle Peak Draw Locality - Big Wash Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-96-8C, Archeological-Environmental Research Corporation, Bountiful.

1996d Cultural Resource Evaluation of Two Proposed Well Locations and Access Routes in the Wells Draw Locality of Duchesne County, Utah. Report prepared for

Balcron Oil Company, BLCR-96-1, Archeological-Environmental Research Corporation, Bountiful.

1996e Cultural Resource Evaluation of Three Proposed Pipeline Corridor Complexes in the Castle Peak Draw - Pariette Bench Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-96-3, Archeological-Environmental Research Corporation, Bountiful.

1996f Cultural Resource Evaluation of Four Proposed Well Locations with Associated Access Road and Pipeline Corridor Complexes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-96-1, Archeological-Environmental Research Corporation, Bountiful.

1996g Cultural Resource Evaluation of Ten Proposed Well Locations with Associated Road Complexes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-96-2, Archeological-Environmental Research Corporation, Bountiful.

1997a Cultural Resource Evaluation of Seven Proposed Well Locations With Associated Road Corridors in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-97-1, Archeological-Environmental Research Corporation, Bountiful.

1997b Cultural Resource Evaluation of Proposed North Ashley Unit No. 7-1 in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-97-1A, Archeological-Environmental Research Corporation, Bountiful.

1997c Cultural Resource Evaluation of Proposed Ashley Federal Units 6-1 and 11-1 in the Wells Draw Locality of Duchesne County, Utah. Report prepared for Inland Production Company, IPC-97-3, Archeological-Environmental Research Corporation, Bountiful.

1998a Cultural Resource Evaluations of Proposed Well Locations in the South Wells Draw Unit, South Pleasant Valley Unit, and Odekirk Springs Lease Areas in the Wells Draw, Pariette Bench, and Castle Peak Draw Localities in Duchesne and Uintah Counties, Utah. Report prepared for Inland Production Company, IPC-98-1, Archeological-Environmental Research Corporation, Bountiful.

1998b Cultural Resource Evaluation of a Series of Potential Drilling Localities in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Inland Resources, Inc., IPC-98-2, Archeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard and Glade Hadden

1993a Cultural Resource Evaluation of Seven Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-4, Archeological-Environmental Research Corporation, Bountiful.

1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archeological-Environmental Research Corporation, Bountiful.

1993c Cultural Resource Evaluation of Eight Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-9, Archeological-Environmental Research Corporation, Bountiful.

1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archeological-Environmental Research Corporation, Bountiful.

1993e Cultural Resource Evaluation of Seven Proposed Wells in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-11, Archeological-Environmental Research Corporation, Bountiful.

1994a Cultural Resource Evaluation of Eight Proposed Wells in the Pleasant Valley Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-3, Archeological-Environmental Research Corporation, Bountiful.

1994b Cultural Resource Evaluation of Proposed Water Injection Line Lateral Segments in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-94-4, Archeological-Environmental Research Corporation, Bountiful.

1994c Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Pariette Draw - Castle Peak Draw - Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-9, Archeological-Environmental Research Corporation, Bountiful.

1994d Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-10, Archeological-Environmental Research Corporation, Bountiful.

1994e Cultural Resource Evaluation of Two Proposed Balcron Monument State Well Locations and Access Routed in the Castle Draw Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-10b, Archeological-Environmental Research Corporation, Bountiful.

1994f Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-11, Archeological-Environmental Research Corporation, Bountiful.

1995a Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-1 & 2, Archeological-Environmental Research Corporation, Bountiful.

1995b Cultural Resource Evaluation of Nine Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-95-5, Archeological-Environmental Research Corporation, Bountiful.

1995c Cultural Resource Evaluation of a Series of Proposed Water Return Pipeline Routes in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-95-7, Archeological-Environmental Research Company, Bountiful.

1997 Cultural Resource Evaluation of the Ashley Unit, South Wells Draw Unit and South Pleasant Valley Unit Lease Areas in the Wells Draw & Pleasant Valley Localities in Duchesne County, Utah Report prepared for Inland Production Company, IPC-97-5A, Archeological-Environmental Research Corporation, Bountiful.

Hauck, F.R. and G. Norman

1980 Final Report on the Mapco River Bend Cultural Mitigation Study, AERC Paper No. 18 of the Archeological-Environmental Research Corporation, Bountiful.

Hauck, F.R. and Dennis Weder

1989 Pariette Overlook -- A Paleo-Indian Quarry Site in the Pariette Draw Locality of Uintah County, Utah. AERC Paper No. 42 of the Archeological-Environmental Research Corporation, Bountiful.

Stokes, W.L.

1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake City.

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office
(AERC FORMAT)

Summary Report of
Inspection for Cultural Resources

Project
Authorization No .U.9.8.A.F.0.0.9.7.b.

Report Acceptable Yes __ No __

Mitigation Acceptable Yes __ No __
Comments:_____

Cultural Resource Evaluation of a Series of Potential Drilling Localities in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah

1. Report Title . . . . . .
Inland Resources, Inc.

2. Development Company

2 24 1 9 9 8 UT-98-54937

3. Report Date . . . . . 4. Antiquities Permit No.

A E R C IPC - 98 - 2 Uintah &

5. Responsible Institution . . . . . County Duchesne

6. Fieldwork
Location: TWN .0.8.S. . RNG .1.6 E. . Section 31
TWN .0.9.S. . RNG .1.6 E. . Sections 9, 10
TWN .0.8.S. . RNG .1.7 E. . Sections 35, 36

7. Resource Area .DM.

8. Description of Examination Procedures: The archeologists directed by Marcel Corbeil, examined six proposed well locations & access corridors and several acreage parcels by walking 15 to 20 meter-wide transects in the parcels and along the 100 foot-wide access corridors centered on the flagged center-line.

9. Linear Miles Surveyed .2.1 ...4.5. . .
and/or
Definable Acres Surveyed . . . . . .
and/or
Legally Undefinable 70
Acres Surveyed . . . . . .

10. Inventory Type I
R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings:
No archaeological sites were identified and recorded during this survey as reported in the preliminary report. With project completion in the Spring of 1998 all the identified resources will be reported in the final report.

12. Number Sites Found .0. . . . .
(No sites = 0)

13. Collection: .N.
(Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:
The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.

15. Literature Search, Location/ Date: Utah SHPO 11-6-97 Vernal BLM 11-10-97

16. Conclusion/ Recommendations:

AERC recommends that a cultural resource clearance be granted to Inland Resources, Inc. for the proposed developments based on the following stipulations:

1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas, well pads and corridors examined as referenced in this report, and to the existing roadways and/or evaluated access routes.

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

3. The authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.

17. Signature of Administrator & Field Supervisor

Administrator:

Field
Supervisor:

UT 8100-3 (2/85)

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/14/2000

API NO. ASSIGNED: 43-047-33550

WELL NAME: ODEKIRK SPRINGS 15-35-8-17

OPERATOR: INLAND PRODUCTION (N5160)

CONTACT: JON HOLST

PHONE NUMBER: 303-893-0102

PROPOSED LOCATION:

SWSE 35 080S 170E

SURFACE: 0660 FSL 1980 FEL

BOTTOM: 0660 FSL 1980 FEL

UINTAH

8 MILE FLAT NORTH (590)

LEASE TYPE: 1-Federal

LEASE NUMBER: U-40026

SURFACE OWNER: 1-Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. 4488944)

N Potash (Y/N)

N Oil Shale (Y/N) *190 - 5 (B)

✓ Water Permit
(No. MUNICIPAL)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3. Unit

✓ R649-3-2. General

Siting:

___ R649-3-3. Exception

___ Drilling Unit

Board Cause No:

Eff Date:

Siting:

___ R649-3-11. Directional Drill

COMMENTS: Mon. Butte Field, SOP, separate file.
GRRV Development Program, rec'd 6-16-00.

STIPULATIONS: (1) FEDERAL APPROVAL

Utah Oil Gas and Mining

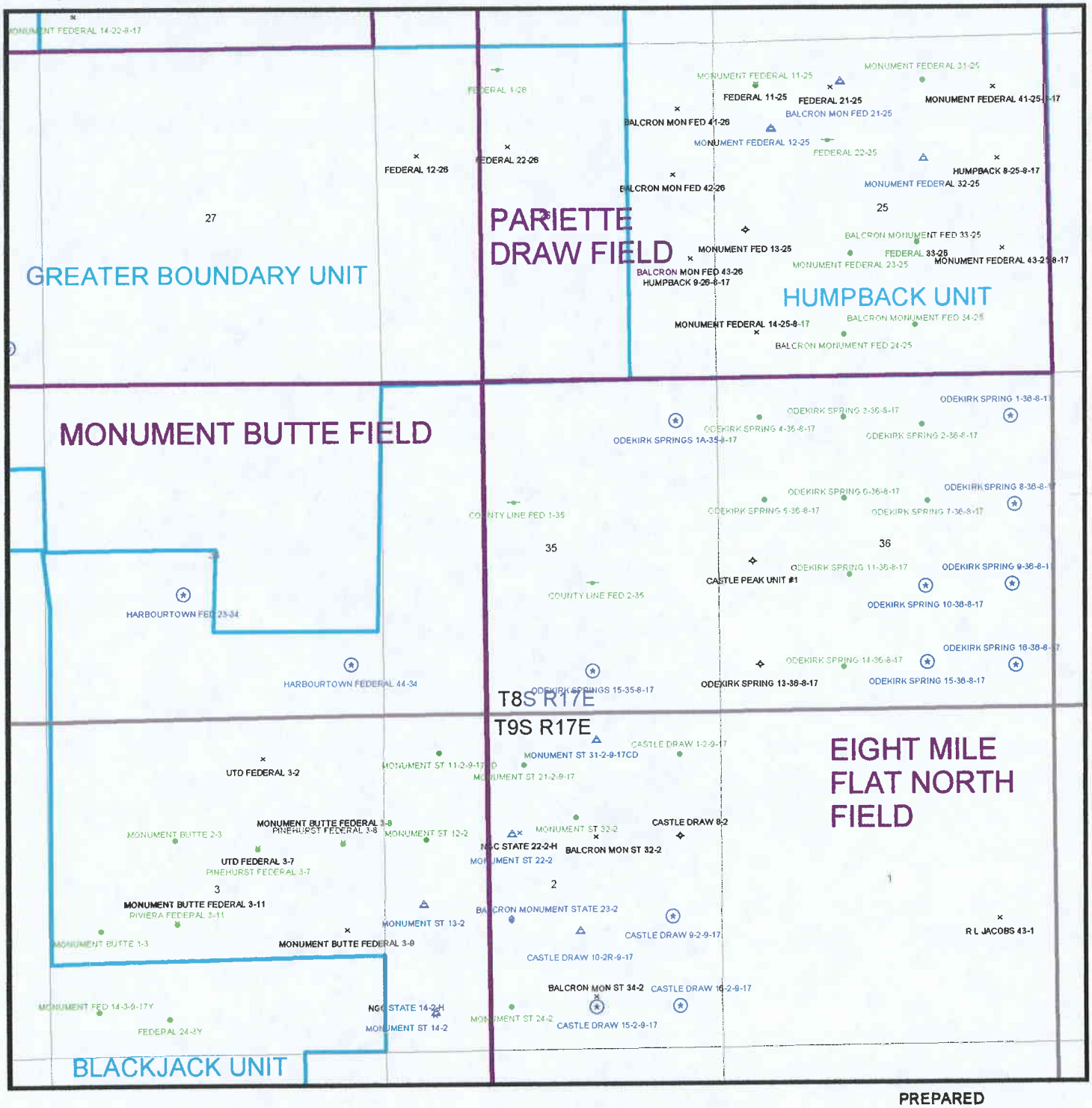
Serving the Industry, Protecting the Environment

OPERATOR: INLAND PRODUCTION CO. (N5160)

FIELD: EIGHT MILE FLAT NORTH (590)

SEC. 35, T 8 S, R 17 E,

COUNTY: UINTAH STATE SPACING 40 ACRES



PREPARED
DATE: 21-APR-2000

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

June 12, 2000

Inland Production Company
410 - 17th St, Suite 700
Denver, CO 80202

Re: Odekirk Springs 15-35-8-17 Well, 660' FSL, 1980' FEL, SW SE, Sec. 35, T. 8 South, R. 17 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33550.

Sincerely,

for John R. Baza
Associate Director

er
Enclosures
cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: Inland Production Company

Well Name & Number Odekirk Springs 15-35-8-17

API Number: 43-047-33550

Lease: U-40026

Location: SW SE **Sec.** 35 **T.** 8 South **R.** 17 East

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   Notify the Division within 24 hours of spudding the well.
   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.
   - Contact Dan Jarvis at (801) 538-5338
   - Contact Robert Krueger at (801) 538-5274.

3. Reporting Requirements

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

FORM 3160-3
(December 1990)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires December 31, 1991

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
APR 14 2000

5. LEASE DESIGNATION AND SERIAL NO.	U-40026
6. IF INDIAN, ALOTTEE OR TRIBE NAME	N/A
1a. TYPE OF WORK	DRILL [X] DEEPEN [ ]
7. UNIT AGREEMENT NAME	N/A
1b. TYPE OF WELL	OIL WELL [X] GAS WELL [ ] OTHER [ ] SINGLE ZONE [X] MULTIPLE ZONE [ ]
8. FARM OR LEASE NAME	Odekirk Springs
2. NAME OF OPERATOR	Inland Production Company
9. WELL NO.	15-35-8-17
3. ADDRESS OF OPERATOR	410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102
10. FIELD AND POOL OR WILDCAT	Monument Butte
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At Surface: SWSE 660' FSL & 1980' FEL; At proposed Prod. Zone	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 35-T8S-R17E
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*	Approximately 15.2 miles from Myton, Utah
12. County	Uintah
13. STATE	UT
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.(Also to nearest drlg. unit line, if any)	660' f/lse line & 660' f/unit line
16. NO. OF ACRES IN LEASE	640
17. NO. OF ACRES ASSIGNED TO THIS WELL	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.	Approximately 1320'
19. PROPOSED DEPTH	6500'
20. ROTARY OR CABLE TOOLS	Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	5054' GR
22. APPROX. DATE WORK WILL START*	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

The Conditions of Approval are also attached.

RECEIVED
JUN 14 2000
DIVISION OF
OIL, GAS AND MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED Jon Holst TITLE Counsel DATE 4/6/00

(This space for Federal or State office use)

NOTICE OF APPROVAL

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE ACTING Assistant Field Manager Mineral Resources DATE JUN 12 2000

CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Odekirk Springs 15-35-8-17

API Number: 43-047-33550

Lease Number: U -40026

Location: SWSE Sec. 35 T. 08S R. 17E

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at ±451 ft.

SURFACE USE PROGRAM
Conditions of Approval (COA)
Inland Production Company - South Wells Draw #15-35-8-17

Plans For Reclamation Of Location

All seeding for reclamation operations at this location shall use the following seed mixture:

gardner saltbush	Atriplex gardneri	3 lbs/acre
shadscale	Atriplex confertifolia	4 lbs/acre
fourwing saltbush	Atriplex canescenscens	2 lbs/acre
western wheatgrass	Pacopyrum smithii	3 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

Inland
RESOURCES INC.

June 14, 2000

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Lisha Cordova
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill
Odekirk Springs #15-35-8-17
and Odekirk Springs #1A-35-8-17
Section 35, T8S, R17E
Duchesne County, Utah

Dear Ms. Cordova:

Enclosed please find amended Onshore Orders for the two referenced wells in Duchesne County, Utah, submitted in duplicate for your approval.

Also enclosed are two copies of the new Green River Standard Operating Procedures (SOP). I have sent this new SOP to the BLM in Vernal for their approval and comment.

If you should require any additional information or if you have any questions, please contact me or Jon Holst at (303) 893-0102.

Sincerely,

Joyce McGough
Regulatory Technician

Enclosures

cc: Roosevelt Office
Jon Holst

RECEIVED
JUN 16 2000
DIVISION OF
OIL, GAS AND MINING

410 Seventeenth Street, Suite 700, Denver, CO 80202 • 303-893-0102 • FAX 303-893-0103

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 15-35-8-17
SW/SE SEC 35, T8S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta Formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1550'
Green River	1550'
Wasatch	6500'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1550' – 6500' – Oil

4. **PROPOSED CASING PROGRAM:**

Please refer to the Green River Standard Operating Procedure (SOP).

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Please refer to the Green River SOP. See Exhibit "F".

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

Please refer to the Green River SOP.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Green River SOP.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

Please refer to the Green River SOP.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Green River SOP.

INLAND PRODUCTION COMPANY
ODEKIRK SPRINGS 15-35-8-17
SW/SE SEC 35, T8S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site for the Odekirk Springs #15-35-8-17, SW/SE of Section 35, T8S, R17E, Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 approximately 1.5 miles to the junction of this highway and Utah State Highway 216; proceed southerly and then southeasterly along Utah State Highway 216 approximately 10.6 miles; then proceed northeasterly 3.1 miles to the start of the proposed access road; proceed southeasterly approximately 0.3 miles to the proposed well site.

2. **PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

3. **LOCATION OF EXISTING WELLS**

Refer to Exhibit "D"

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Green River SOP.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Green River SOP. See Exhibit "C".

6. **SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Green River SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Green River SOP. See Exhibit "E".

8. ANCILLARY FACILITIES:

Please refer to the Green River SOP.

9. WELL SITE LAYOUT:

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s). Refer to Exhibits "E" and "E-1".

10. PLANS FOR RESTORATION OF SURFACE:

Please refer to the Green River SOP.

11. SURFACE OWNERSHIP: Bureau of Land Management

12. OTHER ADDITIONAL INFORMATION:

The Archaeological Cultural Resource Survey is attached.

Inland Production Company requests a 60' ROW for the Odekirk Springs #15-35-8-17 to allow for construction of a 6" poly gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C".**

Inland Production Company also requests a 60' ROW be granted for the Odekirk Springs #15-35-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C".**

13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

Representative

Name:	Joyce McGough
Address:	410 Seventeenth Street
	Suite 700
	Denver, CO 80202
Telephone:	(303) 893-0102

Certification

Please be advised that INLAND RESOURCES, INC. is considered to be the operator of the Odekirk Springs #15-35-8-17, SW/SE Sec. 35, T8S, R17E, Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

6/13/2000
Date

Joyce McGough
Joyce McGough
Regulatory Technician

INLAND PRODUCTION COMPANY

STANDARD OPERATING PRACTICES

GREEN RIVER DEVELOPMENT PROGRAM
Duchesne and Uintah Counties, Utah

DRILLING PROGRAM

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43CFR3100), Onshore Oil and Gas Orders, Notices to Lessees, and the approved Plan of Operations. As Operator, Inland Production Company (Inland) is fully responsible for the actions of its subcontractors. A copy of these Standard Operating Practices as well as any Conditions Of Approval (COAs) will be supplied to the field representative to ensure compliance.

BLM Notification Requirements

Location Construction:	48 hours prior to construction of location and access roads including, if applicable, the Ute Tribe Energy and Mineral Department, or private surface owner.
Location Completion:	Prior to moving the drilling rig.
Spud Notice:	At least 24 hours prior to spudding the well.
Casing String & Cementing:	At least 24 hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests:	At least 24 hours prior to initiating pressure tests.
First Production Notice:	Within 5 days after new well begins or production resumes after well has been off production for more than 90 days.

Details of the on-site inspection, including date, time, and individuals present, will be submitted with the site specific APD.

1. ***Estimated Tops of Important Geologic Markers:***

Within the Monument Butte Green River Development Field, surface locations are in the Uinta Formation.
The top of the Green River formation will be encountered between 1300'-1900'.
The Mahogany Shale occurs between 2900'-3200'.
The Wasatch Formation, occurring between 6300'-6900', will not be penetrated in a standard Monument Butte Field Green River development well.

2. ***Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:***

Gilsonite may be encountered between 0'-3200'.

It is anticipated that oil & associated gas will be encountered in the Green River Formation, with economically producable hydrocarbons between 4000'-TD.

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 600'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 ppm TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (according to State of Utah)	
Dissolved Iron (Fe) (ug/l)	Dissolved Calcium (Ca) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Bicarbonate ($NaHCO_3$) (mg/l)	Dissolved Carbonate (CO_3) (mg/l)
Dissolved Sulfate (SO_4) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Total Solids (TDS) (mg/l)	

3. ***Pressure Control Equipment***: (Schematic Attached)
Inland's minimum specifications for pressure control equipment for a standard Monument Butte Field Green River development well are as follows:

A Double Ram BOP with a hydraulic closing, plus either an Annular Bag type BOP or a Rotating BOP will be utilized. If no annular preventer is used, ramblocks will be changed to match casing outside diameter and the stack will be re-tested prior to running any casing string or long string.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system, and individual components shall be operable as designed.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to BLM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

Auxiliary well control equipment to be used as follows:

1. Kelly cock.
2. A bit float is not deemed necessary, but may be utilized to protect downhole mud motors.
3. A sub with a full opening (TIW) valve having threads compatible with all drill string tubulars shall be readily accessible to the drill crews at all times.

4. ***Proposed Casing and Cementing Program***:

a. Casing Design:

Purpose	Depth	Hole Size	Csg Size	Wt/ft	Grade	Type
Surface	0-300'	12-1/4"	8-5/8"	24#	J-55	ST&C
Production	0-TD	7-7/8"	5-1/2"	15.5#	J-55	LT&C

With the exception of conductor casing, all casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cement Design:

Function	Hole Size	Csg Dia.	Wt./ft.	Shoe Depth	Sacks of Cement
Surface	12-1/4"	8-5/8"	24#	300"	120sx
Production	7-7/8"	5-1/2"	15.5#	TD	350 lead / 330 tail

Surface Pipe: 120 Sacks Premium Plus Cement, w/ 2% Gel, 2% $CaCl_2$, 1/4#/sk Flocele
Weight: 14.8 PPG Yield: 1.37 cu ft/sk. H_2O Req.: 6.4 Gal/sk.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a Minimum of 500 psi prior to drilling out.

Long String: Flush: 20 bbls dyed water followed by 20 bbls gelled water.

Lead: 350 sacks Hibond 65 Modified.
Weight: 11.0 PPG. Yield: 3.00 cu ft/sk. H_2O Req.: 18.08 Gal/sk.

Tail: 330 sacks Premium Plus Thixotropic w/ 10% CalSeal.
Weight: 14.2 PPG. Yield: 1.59 cu ft/sk. H_2O Req.: 7.88 Gal/sk.

(Actual cement volumes will be calculated from open hole logs, plus 15% excess).

The Vernal BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

If conductor drive pipe is used, it may be left in place if its total length is less than 20 feet below the surface. If the total length of the drive pipe is equal to or greater than 20 feet, it will be

pulled prior to cementing surface casing, or it may be cemented in place. The minimum diameter for conductor drive pipe shall be 13 3/8".

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

The following reports shall be filed with the Vernal Office Manager within 30 days after the work is completed:

Progress reports, Form 3160-5, "Sundry Notices and Reports on Wells," must include the following information:

> Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

5. ***Drilling Fluids Program:***

a. Type and Characteristics of the Circulation Muds:

From surface to ± 3200 feet will be drilled with either fresh water or an air/mist system, depending on the drilling contractor's preference. From about 3200 feet, or in the case of the air/mist system when hole conditions dictate, to TD, a fresh water/polymer/DAP (Di-Ammonium Phosphate, commonly known as fertilizer) system will be utilized. Clay inhibition and hole stability will be achieved with additions of 5 - 8 lbs. per barrel of DAP. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

6. ***Evaluation Program:***

a. **Logging Program:**
(the log types run may change at the discretion of the geologist)

DLL/CALIPER:	TD to base of surface casing.
FDC/CNL/GR:	TD - 3,000'
CBL:	A cement bond log will be run from TD to cement top. A field copy will be submitted to the Vernal BLM Office.

b. **Cores:** As deemed necessary.

c. **Drill Stem Tests:** No DSTs are planned in Green River Development Wells.

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

7. *Abnormal Conditions:*

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.4 psi/foot gradient.

8. *Anticipated Starting Dates and Notification of Operations:*

a. Drilling Activity

Anticipated Commencement Date:	Upon approval of the site specific APD.
Drilling Days:	Approximately 7 days.
Completion Days:	Approximately 10 - 14 days.

b. Notification of Operations

The Vernal BLM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Daily drilling and completion reports shall be submitted to the Vernal BLM Office on a weekly basis. Daily drilling reports also shall be submitted to the Vernal BLM Office after drilling operations are completed for each well, and daily completion records shall be submitted with the completion report for each well.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the Vernal BLM Office within 60 days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil & Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5(b.4).

Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current

status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

9. ***Variances:***

The Operator requests approval to perform drilling operations without an automatic igniter, and to ignite as needed, with the flowline at 80 feet.

The Operator requests a variance from a straight-run blooie line, the flowline will contain two (2) 90-degree turns.

The Operator requests that the requirement for a deduster be waived if a mist system is utilized.

10. ***Other Information:***

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal BLM Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. **Mineral materials displaced in the ordinary course of conducting operations and/or construction activities may be used for oil and gas development purposes within the subject lease in accordance with BLM approved actions. Mineral materials may also be obtained by making application for a mineral material sale under the provisions of 43 CFR 3610.1-1.**

Deviations from the proposed drilling and/or workover program shall be approved by the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the Authorized Officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

Failure to comply with the royalty notice requirement in the manner and time allowed shall result in a civil penalty of up to $10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See section (109)(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, one of the following individuals will be contacted:

Wayne Bankert (435)789-4170
Petroleum Engineer

Ed Forsman (435)789-7077
Petroleum Engineer

Jerry Kenczka (435)781-1190
Petroleum Engineer

BLM FAX Machine (435)781-4410

INLAND PRODUCTION COMPANY

STANDARD OPERATING PRACTICES

GREEN RIVER DEVELOPMENT PROGRAM
Duchesne and Uintah Counties, Utah

SURFACE USE PLAN OF OPERATIONS

1. ***Existing Roads:***

The location of each well will be shown on maps and described in the **submitted**, site specific APD.

All improvements to existing access roads will be described in the site specific APD and will comply with the Planned Access Road Standard Operating Practices described in Section 2 of this document.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. ***Planned Access Roads:***

Descriptions of the access road will be included in site specific APD. New access roads on BLM surface will be crowned (2 - 3%), ditched, and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely. On Ute Tribal, private, and/or state surface, access roads will be constructed according to the surface owner's specifications. These specifications or Rights-Of-Way (ROWs) will be attached to the site-specific APD. Where deep cuts are required for road construction, or where intersections or sharp curves occur, or when approval is issued by the BLM's Authorized Officer (AO), the road may be wider than 18 feet to accommodate larger equipment. Appropriate water control will be installed to control erosion.

Unless specified in the site-specific APD, the following specifications will apply:

- No pipelines will be crossed with the new construction.
- The maximum grade will be less than 8%.
- There will be no turnouts.

- There will be no major cut and fills, culverts, or bridges. If it becomes necessary to install a culvert at some time after approval of the APD, the BLM will be notified of the installation via sundry.

- The access road will be centerline flagged during time of staking.

- There will be no gates, cattle guards, fence cuts, or modifications to existing facilities.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Access roads and surface disturbing activities will conform to standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and gas Exploration and Development, 1989.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing and will be maintained according to original construction standards. The access road ROW will be kept free of trash during operations. All traffic will be confined to the approved ROW. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow should be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

3. ***Location of Existing Wells Within a 1-Mile Radius:***

A map will be provided with the site-specific APD showing the location of existing wells within a one mile radius.

4. ***Location of Existing and Proposed Facilities:***

The following guidelines will apply if the well is productive.

- A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut. The specific APD will address additional capacity if such is needed due to environmental concerns. (The use of topsoil for the construction of dikes will not be allowed)

- All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors which are described by the five state Rocky Mountain Inter-Agency Committee. The AO will make a determination of which color is appropriate.

  All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Desert Brown, Munsell standard color number.

- A description of the proposed pipelines and a map will be included with the site- specific APD. Pipelines will be constructed of 4" OD steel. Pipeline segments will be welded together on disturbed areas in or near the location (whenever possible), and dragged into place.

5. ***Location and Type of Water Supply:***

Unless otherwise specified in the site-specific APD, water for drilling and completion purposes will be obtained from Johnson Water District. A temporary line may be used for water transportation from our existing supply line, from Johnson Water District, or trucked from Inland's water supply lines, located at the Gilsonite State #7-32 (SW/NE, Sec. 32, T08S, R17E, SLM), or the Monument Butte Federal #5-35 (SW/NW, Sec. 35, T08S, R16E, SLM), or the Travis Federal #15-28 (SW/SE, Sec. 28, T08S, R16E, SLM), or other taps which may be installed on Inland's water system in the future.

Water will be hauled to location over the roads marked on maps included with the site- specific APD.

6. ***Source of Construction Materials:***

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. ***Methods of Handling Waste Materials:***

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site-specific APD, the reserve pit will be constructed on the location and will not be located within natural drainage ways, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

If it is determined at the onsite inspection that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash or scrap that could puncture the liner will not be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

After first production, produced wastewater will be confined to the approved pit or storage tank, or removed and disposed of at an approved facility, for a period not to exceed 90 days. During the 90 day period, in accordance with Onshore Order # 7, an application for approval of a permanent disposal method and location will be submitted for the Authorized Officer's approval.

On BIA administered lands, production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds.

The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.
No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells within the Monument Butte Field (MBF). Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within the MBF. Specific APDs shall address any modifications from this policy.

Attachment 1 contains the EPA List of Nonexempt Exploration and Production Wastes.

8. *Ancillary Facilities:*

Surface gas lines:

- No installation of surface gas lines will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

- Where possible, surface gas lines shall be placed as close to existing oil field roads as possible without interfering with normal road travel or road maintenance activities. For lines that are installed cross-country (not along access roads), travel along the lines will be infrequent and for maintenance needs only. If surface disturbance occurs along the lines, the operator will reclaim the land to the satisfaction of the AO of the appropriate surface management agency.

- All surface lines will be either black or brown in color.

9. *Well Site Layout:*

A Location Layout Diagram describing drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface material stockpile(s) will be included with the site-specific APD.

The diagram will describe rig orientation, parking areas, and access roads, as well as the location of the following:

- The reserve pit.

- The stockpiled topsoil (first six inches); All brush removed from the well pad during construction will be stockpiled with the topsoil. Topsoil shall not be used in the construction of facility berms.

- Access road.

All pits will be fenced according to the following minimum standards:

- 39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

- All wire shall be stretched using a stretching device before it is attached to corner posts.

- The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

- If flare pits are utilized, they will be located downwind from the prevailing wind direction **and constructed in accordance with appropriate BLM guidelines and regulations.**

10. ***Plans for Reclamation of the Surface:***

Producing Location:

- Immediately upon well completion, the location and surrounding area will be cleared of trash and debris and all unused tubing and materials not required for production.

- Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

- If a synthetic, nylon-reinforced liner is used, the excess liner will be cut off and removed and the remaining liner will be torn and perforated while backfilling the reserve pit. Alternatively, the pit will be pumped dry, the liner folded into the pit, and the pit backfilled. The liner will be buried to a minimum of four (4) feet deep. The AO will provide a seed mixture to revegetate the reserve pit and other unused disturbed areas at the time of the onsite.

- The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to approximate the natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, weather permitting. This will be completed by the backfilling and crowning of the pit to prevent water from standing. **Topsoil will be respread, and the pit area reseeded immediately following the respreading of the topsoil. The appropriate seed mixture will be provided by the AO.**

Dry Hole/Abandoned Location:

- At the time of final abandonment, the intent of reclamation will be to return disturbed areas to near natural conditions. All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed within six (6) months, weather permitting, after final abandonment. The surface of disturbed areas will be recontoured to blend all cuts, fills, road berms, and borrow ditches to be natural in appearance as compared to the surrounding terrain. Abandoned well sites, road, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the reestablishment of irrigation systems, the reestablishment of appropriate soil conditions, and the reestablishment of vegetation as specified.

- After recontouring of disturbed areas, any stockpiled topsoil will be spread over the surface, and the area reseeded **immediately.** The location and access road will be revegetated to the satisfaction of the AO of the appropriate surface management agency. **The seed mixture will be that provided at the time of the onsite or,** the AO will be contacted at the time of reclamation for the appropriate seed mixture. Seed will be drilled on the contour to an appropriate depth. Reseeding operations will be performed **immediately** after completion of reclamation operations.

11. ***Surface Ownership:***

The ownership of the access roads will be specified on the site-specific APD.

The ownership of well pad will be specified on the site-specific APD.

12. ***Other Information:***

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees. Inland is fully responsible for the actions of subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

All travel will be restricted to approved travel routes.

The Operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without

BLM authorization. If BLM authorization is obtained, such storage is only a temporary measure.

Unless previously conducted, a Class III archeological survey will be conducted on all Federal and/or Tribal lands. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The Operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the AO and the Ute Tribe Energy and Mineral Department.
Within five working days, the AO will inform the Operator as to:

- Whether the materials appear eligible for the National Historic Register of Historic Places;

- The mitigation measures the Operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,

- A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the Operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the Operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer (AO) that required mitigation has been completed, the Operator will then be allowed to resume construction.

On surface administered by the BIA, all Surface Use Conditions of Approval associated with the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations will be adhered to, including:

- Any/all contractors used by Inland will have acquired a Tribal Business License and have access permits prior to construction.

- If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the Operator begins any construction activities. The BIA right-of-way application will be delivered under separate cover. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, a right-of-way will be obtained from the other entity.

- Upon completion of the APD and right-of-way construction, the Ute Tribe Energy and Mineral Department will be notified so that a Tribal Technician can verify an Affidavit of Completion.

- Operator's employees, including subcontractors, will not gather firewood along roads constructed by the Operator. If woodcutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of Way Authorization." The Operator, subcontractors, vendors and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

- All roads constructed by the Operator on the Uinta and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. The sign will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the Operator, (c) that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted.

- All well site locations on the Uinta and Ouray Indian Reservation will have an appropriate sign indicating the name of the Operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter/quarter section, the section, township, and range).

13. ***Lessee's or Operator's Representative and Certification***:

Joyce McGough
Regulatory Technician
Inland Production Company
410 Seventeenth Street
Suite 700
Denver, CO 80202
(303) 893-0102

Brad Mecham
District Operations Manager
Inland Production Company
Route 3, Box 3630
Myton, UT 84052
(435) 722-5103

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Site specific certification will be submitted with the site specific APD.

Joyce McGough

11/26/1997
Date

Attachment 1

EPA's LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Com pany: INLAND PRODUCTION COMPANY

Well Name: ODEKIRK SPRINGS 15-35-8-17

Api No.. 43-047-33550 LEASE TYPE: FEDERAL

Section 35 Township 08S Range 17E County UINTAH

Drilling Contractor LEON ROSS DRILLING RIG # 14

SPUDDED:

Date 04//11/2001

Time 8:30 AM

How DRY

Drilling will commence

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 04/13/2001 Signed: CHD

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR: INLAND PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT NO. N5160

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	13094	43-047-33550	Odekirk Springs 15-35-8-17	SW/SE	35	8S	17E	Uintah	April 11, 2001	04/11/01

WELL 1 COMMENTS

4-17-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

WELL 2 COMMENTS

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

WELL 3 COMMENTS

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

WELL 4 COMMENTS

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE

WELL 5 COMMENTS

ACTION CODES (See instructions on back of form)

A - Establish new entity for new well (single well only)
B - Add new well to existing entity (group or unit well)
C - Reassign well from one existing entity to another existing entity
D - Reassign well from one existing entity to a new entity
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Kebbie S. Jones
Signature
Production Clerk
Title
April 17, 2001
Date

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-40026

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
N/A

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Odekirk Springs 15-35-8-17

9. API Well No.
43-047-33550

2. Name of Operator
INLAND PRODUCTION COMPANY

10. Field and Pool, or Exploratory Area
Monument Butte

3. Address and Telephone No.
Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

11. County or Parish, State
Unitah

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
660.' FSL & 1980' FEL SW/SE Sec.35, T8S, R17E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[x] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Spud	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On 4/11/01. MIRU Ross #14. Drill 305' of 12 1/4" hole with air mist. TIH w/ 7 Jt's 85/8" J-55 24# csgn. Set @ 305.19/KB. On 4/18/01 cement with 145 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 3 bbls cement returned to surface. WOC

14. I hereby certify that the foregoing is true and correct

Signed Pat Wisener Title Drilling Foreman Date 04/22/2001

Pat Wisener

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 305.19

LAST CASING 8 5/8" SET AT 305.19
DATUM 10' KB
DATUM TO CUT OFF CASING
DATUM TO BRADENHEAD FLANGE
TD DRILLER 305' LOGGER
HOLE SIZE 12 1/4

OPERATOR Inland Production Company
WELL Odekirk Springs 15-35-8-16
FIELD/PROSPECT Monument Butte
CONTRACTOR & RIG # Ross #14

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		shjt 42.09					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	294.34
		GUIDE shoe			8rd	A	0.9

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	296.19	7
LESS NON CSG. ITEMS	1.85	
PLUS FULL JTS. LEFT OUT	0	
TOTAL	294.34	7
TOTAL CSG. DEL. (W/O THRDS)	294.34	7
TIMING	1ST STAGE	
BEGIN RUN CSG.	SPUD	04/10/2001
CSG. IN HOLE	8:30 AM	
BEGIN CIRC		
BEGIN PUMP CMT		
BEGIN DSPL. CMT		
PLUG DOWN	Cemented	04/18/2001

TOTAL LENGTH OF STRING	296.19
LESS CUT OFF PIECE	1
PLUS DATUM TO T/CUT OFF CSG	10
CASING SET DEPTH	305.19

COMPARE

GOOD CIRC THRU JOB yes
Bbls CMT CIRC TO SURFACE 3
RECIPROCATED PIPE FOR ____ THRU ____ FT STROKE
DID BACK PRES. VALVE HOLD ? N/A
BUMPED PLUG TO 250 PSI

CEMENT USED		CEMENT COMPANY- BJ
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	145	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers - Middle first, top second & third for 3	

COMPANY REPRESENTATIVE Pat Wisener DATE 04/20/2001

Inland
RESOURCES INC.

December 16, 2003

State of Utah, Division of Oil, Gas and Mining
Attn: Ms. Carol Daniels
P.O. Box 145801
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daniels
Re: Completion reports

Dear Ms. Carol Daniels

Enclosed are the preliminary completion reports for the wells spud more than 4 months ago, but not reported as completed.

Inland Resources intends to drill and complete most of the wells on this list in the year 2004. At that time, I will be sending to you the final completion reports for these wells.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris
Engineering Tech

FORM 3160-4
(July 1992)

SUBMIT IN DUPLICATE* (See other instructions ons reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-40026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT AGREEMENT NAME: Odekirk Spring Unit

8. FARM OR LEASE NAME, WELL NO.: Odekirk Springs 15-35-8-17

9. WELL NO.: 43-047-33550

10. FIELD AND POOL OR WILDCAT: Monument Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 35, T8S, R17E

1a. TYPE OF WORK: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

1b. TYPE OF WELL: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR. [ ] Other

2. NAME OF OPERATOR: INLAND RESOURCES INC.

3. ADDRESS AND TELEPHONE NO.: 1401 17th St. Suite 1000 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.*)
At Surface: 660' FSL & 1980' FEL (SW SE) Sec. 35, T8S, R17E
At top prod. Interval reported below
At total depth

14. API NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-047-33550	6/12/00	Uintah	UT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4/11/01		4-30-01	5054' GL 5066' KB	

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
305'			------->	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*: Green River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED: No

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	305'	12-1/4"	To surface with 150 sx Class "G" cmt	
5-1/2" - J-55	15.5#		7-7/8"		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @	TA @

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)
		TA W/O Drill rig

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBLS.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave							#VALUE!

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)

RECEIVED
DEC 22 2003
DIV. OF OIL, GAS & MINING

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold & Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Brian Harris TITLE Engineering Technician DATE 12/16/03

BDH

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			Well Name **Odekirk Springs 15-35-8-17**

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr		
Garden Gulch 1		
Garden Gulch 2		
Point 3 Mkr		
X Mkr		
Y-Mkr		
Douglas Creek Mkr		
BiCarbonate Mkr		
B Limestone Mkr		
Castle Peak		
Basal Carbonate		
Total Depth (LOGGERS)		

Wells Spudded More than 4 Months Ago But Not Yet Reported As Completed

Well Name	Twp-Rng-Sec	API Number	Spud Date
S WELLS DRAW 13-3-9-16	09S 16E 03	4301332106	9/22/2000
LONE TREE 10-16-9-17	09S 17E 16	4301332087	2/5/2001
LONE TREE 15-16-9-17	09S 17E 16	4301332089	2/7/2001
LONE TREE 16-16-9-17	09S 17E 16	4301332150	2/13/2001
ODEKIRK SPRINGS 15-35-8-17	08S 17E 35	4304733550	4/11/2001
GBU 1-34-8-17	08S 17E 34	4301332252	8/12/2001
GBU 7-34-8-17	08S 17E 34	4301332257	8/30/2001
ASHLEY 2-11-9-15	09S 15E 11	4301332214	10/24/2001
S WELLS DRAW 14-3-9-16	09S 16E 03	4301332139	2/18/2002
S WELLS DRAW 11-3-9-16	09S 16E 03	4301332138	2/19/2002
ASHLEY 7-11-9-15	09S 15E 11	4301332215	7/8/2002
JONAH 4-11-9-16	09S 16E 11	4301332279	1/2/2003
GBU 10-26-8-17	08S 17E 26	4304734309	1/29/2003
GBU 2-26-8-17	08S 17E 26	4304734163	4/29/2003
JONAH 7-14-9-16	09S 16E 14	4301332338	5/12/2003
JONAH 6-14-9-16	09S 16E 14	4301332337	6/9/2003
JONAH 5-14-9-16	09S 16E 14	4301332336	6/11/2003
LONE TREE U 8-16-9-17	09S 17E 16	4301332311	7/15/2003
HUMPBACK FED 9-24-8-17	08S 17E 24	4304734881	7/21/2003
LONE TREE U 7-16-9-17	09S 17E 16	4301332310	7/25/2003

FORM 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-40026

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
NA

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
ODEKIRK SPRING 15-35-8-17

9. API Well No.
43-047-33550

2. Name of Operator
INLAND PRODUCTION COMPANY

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

3. Address and Telephone No.
Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

11. County or Parish, State
UINTAH COUNTY, UT

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)
660 FSL 1980 FEL SW/SE Section 35, T8S R17E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other **Weekly Status Report**	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On 5-24-04 MIRU Eagle # 1. Set equipment. Pressure test Bop's, Kelly, & TIW to 2,000 psi. Test 85/8" csgn to 1,500 psi. Vernal BLM office was notified of test. PU BHA and tag cement @ 265'. Drill out cement & shoe. Continue to drill a 77/8" hole with fresh water to a depth of 6125'. Lay down drill string, BHA. Open hole log from TD to surface. PU & MU guide shoe, 1 jt 51/2" J-55 15.5 # csgn. Float collar, & 142 Jt's 51/2" J-55 15.5# csgn. Set @ 6111'/ KB. Cement with 275 sks Prem Lite ll w/ 3% KCL, 8 % Gel, 5#"s sk CSE, 3#'s sk Kolseal, .8% Sms, 1/2# sks Celloflake. Mixed @ 11.0 ppg, >3.42 yld. Followed by 400 sks 50/50 Poz w/ 3% KCL, 2% Gel, .05% Static free, 1/2# sk Celloflake. Mixed @ 14.4 ppg, > 1.24 yld. Returned 4 bbls cement to pit. Nipple down BOP's. Drop slips @ 70,000 # 's tension. Clean pit's & release rig on 5-29-04

14. I hereby certify that the foregoing is true and correct
Signed Pat Wisener Title **Drilling Foreman** Date **5/31/2004**
Pat Wisener

CC: UTAH DOGM

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:
CC: Utah DOGM

RECEIVED
JUN 02 2004
DIV. OF OIL, GAS & MINING

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 303.28

LAST CASING 8 5/8" SET AT 303'
DATUM 12' KB
DATUM TO CUT OFF CASING
DATUM TO BRADENHEAD FLANGE
TD DRILLER 307 LOGGER
HOLE SIZE 12 1/4

OPERATOR Inland Production Company
WELL GreaterBoundry 15-27-8-17
FIELD/PROSPECT Monument Butte
CONTRACTOR & RIG # Ross # 15

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		38' SH jt					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	291.43
		GUIDE shoe			8rd	A	0.9

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	293.28	7
LESS NON CSG. ITEMS	1.85	
PLUS FULL JTS. LEFT OUT	0	
TOTAL	291.43	7
TOTAL CSG. DEL. (W/O THRDS)	291.43	7
TIMING	1ST STAGE	
BEGIN RUN CSG. Spud	5/26/2004	12:00pm
CSG. IN HOLE		
BEGIN CIRC		
BEGIN PUMP CMT		
BEGIN DSPL. CMT		
PLUG DOWN	Cemented	5/30/2004

TOTAL LENGTH OF STRING	293.28
LESS CUT OFF PIECE	2
PLUS DATUM TO T/CUT OFF CSG	12
CASING SET DEPTH	303.28

} COMPARE

GOOD CIRC THRU JOB YES
Bbls CMT CIRC TO SURFACE 8 bbls cement to pit
RECIPROCATED PIPE I N/A
DID BACK PRES. VALVE HOLD ? N/A
BUMPED PLUG TO 200 PSI

CEMENT USED — CEMENT COMPANY- B. J.

STAGE	# SX	CEMENT TYPE & ADDITIVES
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield
2	100	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield

CENTRALIZER & SCRATCHER PLACEMENT — SHOW MAKE & SPACING

Centralizers - Middle first, top second & third for 3

COMPANY REPRESENTATIVE Pat Wisener DATE 5/31/2004

FORM 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

5. Lease Serial No.
UTU40026

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.
COUNTY LINE AREA

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
ODEKIRK SPRINGS 15-35-8-17

2. Name of Operator
Inland Production Company

9. API Well No.
4304733550

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone No. *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
Monument Butte

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FSL, 1980 FEL
SW/SE Section 35 T8S R17E

11. County or Parish, State
Uintah,UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☒ Production(Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Weekly Status Report
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☐ Convert to Injector	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the wor performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation re multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Status report for time period 6/6/2004–6/18/2004

Subject well had completion procedures initiated in the Green River formation on 6/6/2004 without the use of a service rig over the well. A cement bond log was run and a total of six Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1: (5856-5867'); Stage #2: (5732-5743'), (5703-5722'); Stage #3: (5160-5170'); Stage #4: (5006-5025'), (4994-5003'); Stage #5: (4912-4921'), (4884-4897'); Stage #6: (4404-4414'), (4334-4354'). All perforations were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over well 6/14/2004. Bridge plugs were drilled out and well was cleaned to 6089' Zones were swab tested for sand cleanup. A BHA and production tubing string were run and anchored in well. End of tubing string @ 5913'. A new 1 ½" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 6/18/2004.

RECEIVED
JUL 2 0 2004
DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct
Name *(Printed/ Typed)*
Matt Richmond

Title
Production Clerk

Signature

Date
7/19/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

FORM 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31,2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

5. Lease Serial No.
UTU40026

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.
COUNTY LINE AREA

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
ODEKIRK SPRINGS 15-35-8-17

2. Name of Operator
Inland Production Company

9. API Well No.
4304733550

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone No. *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
Monument Butte

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FSL, 1980 FEL
SW/SE Section 35 T8S R17E

11. County or Parish, State
Uintah,UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production(Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ _____
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☐ Convert to Injector	☐ Plug Back	☒ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the wor performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation re multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.
Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

I hereby certify that the foregoing is true and correct
Name *(Printed/ Typed)*
Mandie Crozier

Title
Regulatory Specialist

Signature Mandie Crozier

Date
6/30/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED
JUL 01 2004
DIV. OF OIL, GAS & MINING

July 20, 2004

State of Utah, Division of Oil, Gas and Mining
Attn: Ms. Carol Daniels
P.O. Box 145801
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daniels

Odekirk Springs 15-35-8-17 (43-047-33550)
Uintah County, Utah

Dear Ms. Carol Daniels

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Pat Grissom of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris
Engineering Tech

Enclosures

cc: Bureau of Land Management
Vernal District Office, Division of Minerals
Attn: Edwin I. Forsman
170 South 500 East
Vernal, Utah 84078

Well File – Denver
Well File – Roosevelt
Patsy Barreau/Denver
Bob Jewett/Denver
Matt Richmond/Roosevelt

Alamo Plaza Building
1401 Seventeenth Street, Suite 1000
Denver, CO 80202
303-893-0102 • Fax: 303-893-0103

FORM 3160-4
(July 1992)

SUBMIT IN DUPLICATE* (See other instructions ons reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-40026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

1a. TYPE OF WORK: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

7. UNIT AGREEMENT NAME: NA

1b. TYPE OF WELL: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR. [ ] Other

8. FARM OR LEASE NAME, WELL NO.: Odekirk Springs 15-35-8-17

2. NAME OF OPERATOR: INLAND RESOURCES INC.

RECEIVED
JUL 26 2004
DIV. OF OIL, GAS & MINING

9. WELL NO.: 43-047-33550

3. ADDRESS AND TELEPHONE NO.: 1401 17th St. Suite 1000 Denver, CO 80202

10. FIELD AND POOL OR WILDCAT: Monument Butte

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.*)
At Surface: 660' FSL & 1980' FEL (SW SE) Sec. 35, T8S, R17E
At top prod. Interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 35, T8S, R17E

14. API NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-047-33550	6/12/00	Uintah	UT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD
4/11/01	5/28/2004	6/18/2004	5054' GL	5066' KB	

20. TOTAL DEPTH, MD & TVD	21. PLUG BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6125'	6089'		----->	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*: Green River 4334'-5867'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN: CDL/CN/GR, DIG/GR, CBL/GR/CCL

27. WAS WELL CORED: No

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	305'	12-1/4"	To surface with 150 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6111'	7-7/8"	275 sxs Premlite II & 400 sxs 50/50 POZ	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @ 5913'	TA @ 5811'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER
(CP4) 5856'-5867'	.41"	4/44
(CP2) 5703-22', 5732-43'	.41"	4/120
(B2) 5160'-5170'	.41"	4/40
(C-sd) 4994'-5003', 5006'-5025'	.41"	4/76
(D2) 4884-97', 4912-21'	.41"	4/88
(GB4,6) 4334-54', 4404-4414'	.41"	4/80

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5856'-5867'	Frac w/ 20,925# 20/40 sand in 298 bbls fluid.
5703'-5743'	Frac w/ 98,952# 20/40 sand in 718 bbls fluid.
5160'-5170'	Frac w/ 40,129# 20/40 sand in 378 bbls fluid.
4994'-5025'	Frac w/ 119,457# 20/40 sand in 825 bbls fluid.
4884'-4921'	Frac w/ 90,832# 20/40 sand in 655 bbls fluid.
4334'-4414'	Left zones unfraced

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)
6/18/2004	Randys 2 1/2" x 1 3/4" x 16' RHAC Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBLS.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave			----->	172	82	10	477

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)
		----->				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold & Used for Fuel

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Brian Harris TITLE Engineering Technician DATE 7/19/2004

BDH

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			Well Name **Odekirk Springs 15-35-8-17**

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	3856'	
Garden Gulch 1	4035'	
Garden Gulch 2	4151'	
Point 3 Mkr	4415'	
X Mkr	4638'	
Y-Mkr	4675'	
Douglas Creek Mkr	4804'	
BiCarbonate Mkr	5051'	
B Limestone Mkr	5199'	
Castle Peak	5630'	
Basal Carbonate	6050'	
Total Depth (LOGGERS	6125'	

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure
1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

UTSL-
071572A
065914

UTU-
02458
03563
03563A
04493
05843
07978
09803
017439B
017985
017991
017992
018073
019222
020252
020252A
020254
020255
020309D
022684A
027345
034217A
035521
035521A
038797
058149
063597A
075174
096547
096550

10760
11385
13905
15392
15855
16535
16539
16544
17036
17424
18048
18399
19267
26026A
30096
30103
31260
33992
34173
34346
36442
36846
38411
38428
38429
38431
39713
39714
40026
40652
40894
41377
44210
44426
44430
45431
47171
49092
49430
49950
50376
50385
50376
50750
51081
52013
52018
58546
61052
62848
63073B
63073D
63073E
63073O
64917
64379
64380
64381
64805
64806
64917
65207
65210
65635
65967
65969
65970
66184
66185
66191
67168
67170
67208
67549
67586
67845
68105
68548
68618
69060
69061
69744
70821
72103
72104
72105
72106
72107
72108
73086
73087
73807
73088
73089
73520A
74108
74805
74806
74807
74808
74389
74390
74391
74392
74393
74398
74399
74400
74404
74405
74406
74411
74805
74806
74826
74827
74835
74868
74869
74870
74872
74970
75036
75037
75038
75039
75075
75078
75089
75090
75234
75238
76239
76240
76241
76560
76561
76787
76808
76813
76954
76956
77233
77234
77235
77337
77338
77339
77357
77359
77365
77369
77370
77546
77553
77554
78022
79013
79014
79015
79016
79017
79831
79832
79833
79831
79834
80450
80915
81000

63073X
63098A
68528A
72086A
72613A
73520X
74477X
75023X
76189X
76331X
76788X
77098X
77107X
77236X
77376X
78560X
79485X
79641X
80207X
81307X

Corporations Section
P.O.Box 13697
Austin, Texas 78711-3697

Geoffrey S. Connor
Secretary of State

Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold) — Designation of Agent/Operator

X Operator Name Change — **Merger**

The operator of the well(s) listed below has changed, effective: **9/1/2004**

FROM: (Old Operator):	**TO:** (New Operator):
N5160-Inland Production Company	N2695-Newfield Production Company
Route 3 Box 3630	Route 3 Box 3630
Myton, UT 84052	Myton, UT 84052
Phone: 1-(435) 646-3721	Phone: 1-(435) 646-3721

CA No. **Unit:**

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
HANCOCK 14-23-4-1	23	040S	010W	4304733080	12331	Fee	OW	P	
HANCOCK 11-23-4-1	23	040S	010W	4304733081	12355	Fee	OW	P	
HANCOCK 4-26-4-1	26	040S	010W	4304733082	12492	Fee	OW	P	
ODEKIRK SPRINGS 1A-35-8-17	35	080S	170E	4304733549	12909	Federal	OW	P	
ODEKIRK SPRINGS 15-35-8-17	35	080S	170E	4304733550	13094	Federal	OW	P	
ODEKIRK SPRING 13-36-8-17	36	080S	170E	4304733076	12420	State	D	PA	
SUNDANCE FED 14-31-8-18	31	080S	180E	4304734287		Federal	OW	APD	K
FEDERAL 1-31-8-18	31	080S	180E	4304734494	13927	Federal	OW	P	K
FEDERAL 2-31-8-18	31	080S	180E	4304734495	13959	Federal	OW	OPS	K
SUNDANCE 7-32-8-18	32	080S	180E	4304734458	13987	State	OW	P	K
SUNDANCE 8-32-8-18	32	080S	180E	4304734459	14047	State	OW	P	K
SUNDANCE 9-32-8-18	32	080S	180E	4304734460	13988	State	OW	OPS	K
SUNDANCE 11-32-8-18	32	080S	180E	4304734461	13962	State	OW	P	K
SUNDANCE 12-32-8-18	32	080S	180E	4304734462	14031	State	OW	P	K
SUNDANCE 13-32-8-18	32	080S	180E	4304734463	13964	State	OW	P	K
SUNDANCE 14-32-8-18	32	080S	180E	4304734464	14046	State	OW	P	K
SUNDANCE 15-32-8-18	32	080S	180E	4304734465	13978	State	OW	P	K
SUNDANCE 16-32-8-18	32	080S	180E	4304734466	14028	State	OW	OPS	K
FEDERAL 2-6-9-18	06	090S	180E	4304734013		Federal	OW	APD	K
FEDERAL 3-6-9-18	06	090S	180E	4304734425		Federal	OW	APD	K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 2/23/2005
4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE

6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - **received 2/23/05**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 WYNKOOP STREET
DENVER, CO 80202-1129
http://www.epa.gov/region8

MAR 2 5 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Eric Sundberg
Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Re: FINAL Permit
EPA UIC Permit UT21212-08316
Well: Odekirk Springs 15-35-8-17
SWSE Sec. 35-T8S-R17E
Uintah County, UT
API No.: 43-047-33550

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Odekirk Springs 15-35-8-17 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on MAR 1 3 2009. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Sarah Bahrman of my staff at (303) 312-6243, or toll-free at (800) 227-8917, ext. 312-6243.

Sincerely,

for Eddie A. Sierra
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Final Permit Letter:
Uintah & Ouray Business Committee,Ute Indian Tribe
Curtis Cesspooch, Chairman
Irene Cuch, Vice-Chairwoman
Frances Poowegup, Councilwoman
Ronald Groves, Councilman
Phillip Chimburas, Councilman
Steven Cesspooch, Councilman

Daniel Picard, Superintendent
U.S. Bureau of Indian Affairs
Uintah & Ouray Indian Agency

All enclosures:

Larry Love, Director
Energy and Minerals Department
Ute Indian Tribe

Ferron Secakuku
Director, Natural Resources
Ute Indian Tribe

Gil Hunt, Associate Director
Utah Division of Oil, Gas and Mining

Fluid Minerals Engineering Office
U.S. Bureau of Land Management
Vernal Office

Michael Guinn, District Manager
Newfield Production Company
Myton, Utah

EPA

UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT

PREPARED: March 2009

Permit No. UT21212-08316

Class II Enhanced Oil Recovery Injection Well

Odekirk Springs 15-35-8-17
Uintah County, UT

Issued To

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Odekirk Springs 15-35-8-17 660' FSL & 1980' FEL, SWSE S35, T8S, R17E Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: MAR 25 2009 Effective Date MAR 25 2009

Eddie A. Sierra
Acting Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

(a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and

(b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:

  (i) on the injection tubing; and

  (ii) on the tubing-casing annulus (TCA); and

(c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and

(d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

(a) There is no significant leak in the casing, tubing, or packer (Part I); and

(b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

(a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and

(i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or

(ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

(a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.

(b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

(a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;

(b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;

(c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

(b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.

(c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.

(d) Pressures are to be measured in pounds per square inch (psi).

(e) Fluid volumes are to be measured in standard oil field barrels (bbl).

(f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

(a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.

(b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

(a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or

(b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

(a) Provides written notice to the Director;

(b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

(c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging , or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

(a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.

(b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.

(d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.

(e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:

(i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or

(ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.

(g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.

(h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

(a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or

(b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Odekirk Springs No. 15-35-8-17 was drilled to a total depth of 6,125 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 307 feet in a 12-1/4 inch hole using 150 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6,111 feet (KB) in a 7-7/8 inch hole with 275 sacks of Premium Lite II and 400 sacks of 50/50 poz mix.

The EPA calculates the top of cement as 1,750 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 113 feet. CBL analysis does not identify adequate footage of 80% cement bond index within the confining zone.

The schematic diagram shows proposed enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,856 feet and the top of the Wasatch Formation (Estimated to be 6,175 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Odekirk Springs 15-35-8-17

Spud Date: 4/11/01
Put on Production: 6/18/04
GL: 5054' KB: 5066'

Proposed Injection
Wellbore Diagram

Initial Production: 172 BOPD,
82 MCFD, 10 BWPD

SURFACE CASING

CSG SIZE: 8 5/8" ✓
GRADE: J-55
WEIGHT: 24# ✓
LENGTH: 7 jts. (296.19')
DEPTH LANDED: 307.19' KB OK
HOLE SIZE: 12 1/4" ✓
CEMENT DATA: 145sxs Class "G" mixed cmt, est 3 bbls cmt to surf.

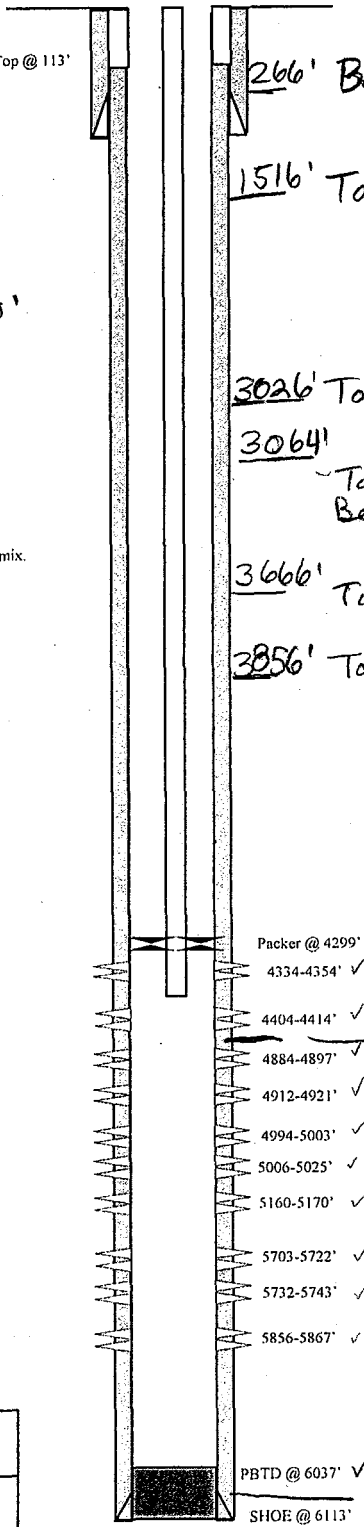
150 EPA TOC calc = 1750'

PRODUCTION CASING

CSG SIZE: 5 1/2" ✓
GRADE: J-55
WEIGHT: 15.5# ✓
LENGTH: 143 jts. (6113.68')
DEPTH LANDED: 6111.68' KB ✓
HOLE SIZE: 7 7/8" ✓
CEMENT DATA: 275 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ mix. ✓
CEMENT TOP AT: 113' ✓

TUBING

SIZE/GRADE/WT.: 2 7/8" / J-55
NO. OF JOINTS: 179 jts (5799.18')
TUBING ANCHOR: 5811.18'
NO. OF JOINTS: 1 jt (32.50')
SEATING NIPPLE: 2 7/8" (1.10')
SN LANDED AT: 5846.48'
NO. OF JOINTS: 2 jts (65.01')
TOTAL STRING LENGTH: EOT @ 5913.04'



FRAC JOB

6/10/04 5856-5867'
Frac CP4 sands as follows:
20,925# 20/40 sand in 298 bbls lightning Frac 17 fluid. Treated @ avg press of 1760 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 5854 gal. Actual flush: 5897 gal.

6/10/04 5703-5743'
Frac CP2 sands as follows:
98,952# 20/40 sand in 718 bbls lightning Frac 17 fluid. Treated @ avg press of 1530 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc flush: 5701 gal. Actual flush: 5699 gal.

6/10/04 5160-5170'
Frac B2 sands as follows:
40,129# 20/40 sand in 378 bbls lightning Frac 17 fluid. Treated @ avg press of 1670 psi w/avg rate of 24.8 BPM. ISIP 1750 psi. Calc flush: 5158 gal. Actual flush: 5158 gal.

6/10/04 4994-5025'
Frac C sands as follows:
119,457# 20/40 sand in 825 bbls lightning Frac 17 fluid. Treated @ avg press of 1500 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc flush: 4992 gal. Actual flush: 5032 gal.

6/10/04 4884-4921'
Frac D2 sands as follows:
90,832# 20/40 sand in 655 bbls lightning Frac 17 fluid. Treated @ avg press of 1871 psi w/avg rate of 24.7 BPM. ISIP 1980 psi. Calc flush: 4882 gal. Actual flush: 4880 gal.

6/10/04 4334-4414'
Frac GB6 and 4 sands as follows:
115,335# 20/40 sand in 800 bbls lightning Frac 17 fluid. Treated @ avg press of 2150 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 4332 gal. Actual flush: 4242 gal

12/01/06 **Parted Rods:** Updated Rod & Tubing Detail.

7/27/07 Parted rods. Updated rod & tubing detail.

PERFORATION RECORD

6/06/04	5856-5867'	4 JSPF	44 holes
6/10/04	5732-5743'	4 JSPF	44 holes
6/10/04	5703-5722'	4 JSPF	76 holes
6/10/04	5160-5170'	4 JSPF	40 holes
6/10/04	5006-5025'	4 JSPF	76 holes
6/10/04	4994-5003'	4 JSPF	36 holes
6/10/04	4912-4921'	4 JSPF	36 holes
6/10/04	4884-4897'	4 JSPF	52 holes
6/10/04	4404-4414'	4 JSPF	40 holes
6/10/04	4334-4354'	4 JSPF	40 holes

No 80% bond through Confining Zone.
⇒ needs RTS/Part II demonstration.

NEWFIELD

Odekirk Springs 15-35-8-17
660' FSL & 1980' FEL
SW/SE Section 35-T8S-R17E
Uintah Co, Utah
API #43-047-33550; Lease #U-40026

MS 10/21/08

Permit UT21212-08316

FINAL PERMIT.

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.
Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.
Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Odekirk Springs 15-35-8-17

TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Prior to receiving authorization to inject and at least once every five (5) years after the last successful demonstration of Part I Mechanical Integrity
Pore Pressure	Prior to receiving authorization to inject
Radioactive Tracer Survey (2)	Prior to receiving authorization to inject and at least once every five (5) years after the last successful test

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi) ZONE 1 (Upper)
Odekirk Springs 15-35-8-17	1,085

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Odekirk Springs 15-35-8-17

FORMATION NAME	APPROVED INJECTION INTERVAL (KB, ft) TOP	BOTTOM	FRACTURE GRADIENT (psi/ft)
Green River: Garden Gulch	3,856.00	4,804.00	0.690
Green River: Douglas Creek	4,804.00	6,050.00	0.690
Green River: Basal Carbonate	6,050.00	6,175.00	

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to APPENDIX B - LOGGING AND TESTING REQUIREMENTS.

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See Schematic Diagram

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2,975 feet to 3,135 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2,975 feet to 3,135 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the base of the Uinta formation approximately 1,456 feet to 1,576 feet (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 120-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,456 feet to 1,576 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 357 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

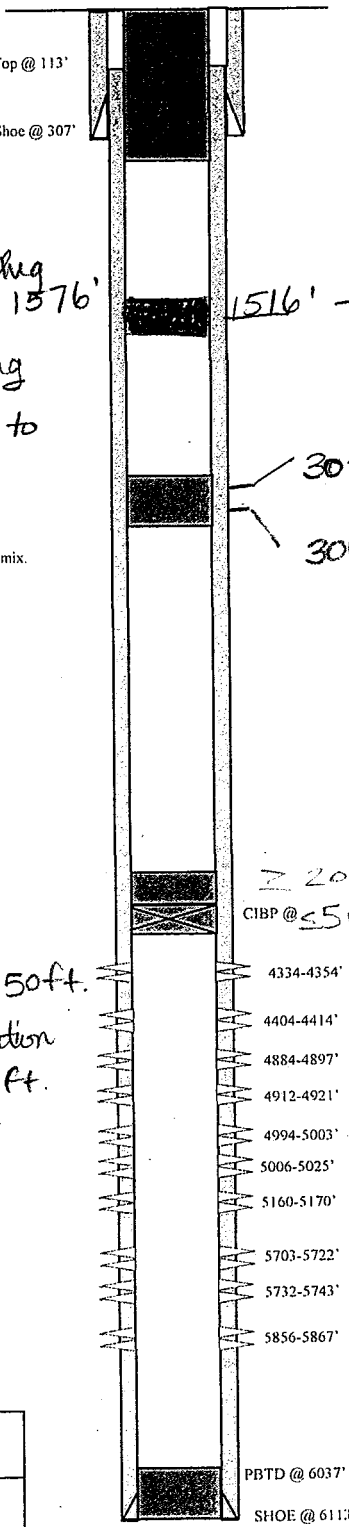
Attachment Q-2

Odekirk Springs 15-35-8-17

Spud Date: 4/11/01
Put on Production: 6/18/04
GL: 5054' KB: 5066'

Initial Production: 172 BOPD, 82 MCFD, 10 BWPD

Proposed P & A
Wellbore Diagram



SURFACE CASING
CSG SIZE: 8 5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (296.19')
DEPTH LANDED: 307.19' KB
HOLE SIZE: 12 1/4"
CEMENT DATA: 145sxs Class "G" mixed cmt, est 3 bbls cmt to surf.

Plug 4 - From surface to 357'

Plug 3 - 120-ft plug from 1456' to 1576'

PRODUCTION CASING
CSG SIZE: 5 1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 143 jts. (6113.68')
DEPTH LANDED: 6111.68' KB
HOLE SIZE: 7 7/8"
CEMENT DATA: 275 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ mix.
CEMENT TOP AT: 113'

Plug 2 - 160-ft plug from 2975' to 3135'

Plug 1 - No more than 50ft. above top perforation with at least 20ft. of cement on top

NEWFIELD

Odekirk Springs 15-35-8-17
660' FSL & 1980' FEL
SW/SE Section 35-T8S-R17E
Uintah Co, Utah
API #43-047-33550; Lease #U-40026

MS 10/21/08

Permit UT21212-08316

E-2

FINAL PERMIT

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

The Monument State 31-2-9-17 will be monitored weekly at the surface for evidence of fluid movement out of the injection zone.

In addition, Newfield developed a corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone."

If possible fluid movement out of the injection zone is identified, either through the weekly monitoring, through Newfield's July 10, 2008 procedure described above, or through any other means (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, tubing-casing annulus pressure readings, or other evidence of a mechanical integrity failure), the Permittee will shut in the Odekirk Springs No. 15-35-8-17 immediately and notify the Director. No injection into the Odekirk Springs No. 15-35-8-17 will be permitted until the Permittee has notified the Director that the situation has been resolved, submitted Rework Records (EPA Form No 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.

STATEMENT OF BASIS

NEWFIELD PRODUCTION COMPANY
ODEKIRK SPRINGS 15-35-8-17
UINTAH COUNTY, UT

EPA PERMIT NO. UT21212-08316

CONTACT: Sarah Bahrman
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
1595 Wynkoop Street
Denver, Colorado 80202-1129
Telephone: 1-800-227-8917 ext. 312-6243

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Company
1001 Seventeenth Street, Suite 2000
Denver, CO 80202

on

December 16, 2008

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Odekirk Springs 15-35-8-17
660' FSL & 1980' FEL, SWSE S35, T8S, R17E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Odekirk Springs No. 15-35-8-17 is currently an active Green River Formation (Garden Gulch-Douglas Creek Members) oil well. It is the initial intent of the applicant to use the current production perforations for Class II enhanced recovery injection. The Odekirk Springs No. 15-35-8-17 has total depth in the Basal Carbonate Member.

TABLE 1.1

WELL STATUS / DATE OF OPERATION

NEW WELLS

Well Name	Well Status	Date of Operation
Odekirk Springs 15-35-8-17	New	N/A

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/L and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of groundwater withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

Geologic Setting (TABLE 2.1)

The proposed enhanced oil recovery injection well is located in the Eight Mile North Flat Field, which is part of the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains, and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uintah Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The

Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

TABLE 2.1
GEOLOGIC SETTING
Odekirk Springs 15-35-8-17

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta: USDW	0	266	< 10,000	Sand and shale
Uinta	266	1,516		Interbedded sand, shale, and carbonate, and fluvial sand and shale
Upper Green River	1,516	3,026		Interbedded sand, shale, and carbonate, and fluvial sand and shale
Upper Green River: Trona	3,026	3,064		carbonate
Upper Green River: Mahogany Bench	3,064	3,084		oil shale
Upper Green River: Shale	3,666	3,856		shale
Green River: Garden Gulch	3,856	4,804	17,816	lacustrine sand, shale, carbonate, interbedded with fluvial sand and shale
Green River: Douglas Creek	4,804	6,050	17,816	interbedded sand, shale, and limestone
Green River: Basal Carbonate	6,050	6,175		carbonate
Wasatch (estimated)	6,175			Lacustrine sand, shale, and conglomerate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The EPA approved interval for Class II enhanced recovery injection is located between the top of the Garden Gulch Member (3,856 feet) and the top of the Wasatch Formation estimated to be 6,175 feet.

TABLE 2.2
INJECTION ZONES
Odekirk Springs 15-35-8-17

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River: Garden Gulch	3,856	4,804	17,816	0.690		N/A
Green River: Douglas Creek	4,804	6,050	17,816	0.690		N/A
Green River: Basal Carbonate	6,050	6,175				N/A

* **C - Currently Exempted**
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 190-foot (3,666 - 3,856 feet) shale Confining Zone overlies the top of the Garden Gulch Member.

TABLE 2.3
CONFINING ZONES
Odekirk Springs 15-35-8-17

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Upper Green River: Shale	shale	3,666	3,856

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River

Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah Division of Water Rights identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Odekirk Springs No. 15-35-8-17.

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 266 feet from the surface. However, absent definitive information relative to the water quality of the Uinta Formation, from the depth of 266 feet to the base of the Uinta Formation (1,516 feet), the EPA will require, during plugging and abandonment, a cement plug at the base of the Uinta Formation to prevent contamination of possible Uinta USDWs.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Odekirk Springs 15-35-8-17

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta: USDW	Sand and shale	0	266	< 10,000
Uinta	Interbedded sand, shale, and carbonate, and fluvial sand and shale	266	1,516	

PART III. Well Construction (40 CFR 146.22)

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Odekirk Springs 15-35-8-17

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Surface	12.25	8.63	0 - 307	0 - 307
Longstring	7.88	5.50	0 - 6,112	113 - 6,112

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

See diagram.

The Odekirk Springs No. 15-35-8-17 was drilled to a total depth of 6,125 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 307 feet in a 12-1/4 inch hole using 150 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 6,111 feet (KB) in a 7-7/8 inch hole with 275 sacks of Premium Lite II and 400 sacks of 50/50 poz mix.

The EPA calculates the top of cement as 1,750 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 113 feet. CBL analysis does not identify adequate footage of 80% cement bond index within the confining zone.

The schematic diagram shows proposed enhanced recovery injection perforations in the Garden Gulch and Douglas Creek Members of the Green River Formation. Additional perforations may be added at a later time between the depths of 3,856 feet and the top of the Wasatch Formation (Estimated to be 6,175 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing-casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1
AOR AND CORRECTIVE ACTION

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
County Line Federal #2-35	Producer	No	6,100	1,000	No
Federal 14-35-8-17	Producer	No	6,110	270	No
Federal 16-35-8-17	Producer	No	6,100	100	No
Monument State 31-2-9-17	Injector	No	5,850	1,300	Yes

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
Odekirk Springs 15-35-8-17

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River: Basal Carbonate			0
Green River: Garden Gulch	4,334	0.690	1,085
Green River: Douglas Creek	4,884	0.690	1,220

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate will be a blend of drinking-quality water from the Johnson Water District supply line and/or water from the Green River supply line, as well as Green River Formation water from wells proximate to the Odekirk Springs No. 15-35-8-17 and mixed at the Boundary Injection Facility.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)
fg = fracture gradient (from submitted data or tests)
sg = specific gravity (of injected fluid)
d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs

into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or daily volume of authorized Class II fluid to be injected into the approved Green River Formation Interval. The Permittee shall not exceed the maximum authorized injection pressure.

Mechanical Integrity (40 CFR 146.8)
An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing, or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

Part II MI: The CBL indicates that cement does not meet minimum requirements needed to demonstrate zone isolation (at least 18 feet of continuous 80% cement bond index, or better) through the Confining Zone. Therefore, further testing for Part II MI will be required prior to injection and at least once every five years thereafter. The demonstration shall be by Radioactive Tracer Survey or other approved test. Approved tests for demonstrating Part II MI include a Radioactive Tracer Survey, Temperature Survey, Noise Log or Oxygen Activation Log.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program
At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the

Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

See Schematic Diagram

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2,975 feet to 3,135 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 160-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2,975 feet to 3,135 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the base of the Uinta formation approximately 1,456 feet to 1,576 feet (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 120-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1,456 feet to 1,576 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 357 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

The applicant has demonstrated financial responsibility by a Financial Statement in the amount of $59,344 that has been approved by the EPA. The Director may revise the amount required, and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

Financial Statement, received May 16, 2008

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-40026
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME:
GMBU
8. WELL NAME and NUMBER:
ODEKIRK SPRINGS 15-35-8-17
9. API NUMBER:
4304733550
10. FIELD AND POOL, OR WILDCAT:
MONUMENT BUTTE

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL [x] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 660 FSL, 1980 FEL COUNTY: UINTAH
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 35, T8S, R17E STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[ ] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[X] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[X] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[ ] OTHER: -
03/01/2010	[X] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 02/24/2010.
On 01/27/2010 Sarah Bahrman with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 02/08/2010. On 03/01/2010 the casing was pressured up to 1175 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 250 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT21212-08316 API# 43-047-33550

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE Lucy Chavez-Naupoto DATE 03/03/2010

(This space for State use only)

RECEIVED
MAR 08 2010
DIV. OF OIL, GAS & MINING

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31,2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

5. Lease Serial No.
USA UTU-40026

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
ODEKIRK SPRINGS 15-35-8-17

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4304733550

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FSL, 1980 FEL

SWSE Section 35 T8S R17E

11. County or Parish, State
UINTAH, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change Status
	☐ Change Plans	☐ Plug & Abandon	☐ Temporarily Abandon	
	☒ Convert to Injector	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 02/24/2010.
On 01/27/2010 Sarah Bahrman with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 02/08/2010. On 03/01/2010 the casing was pressured up to 1175 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 250 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT21212-08316 API# 43-047-33550

I hereby certify that the foregoing is true and correct *(Printed/ Typed)* Lucy Chavez-Naupoto	Title Administrative Assistant
Signature Lucy Chavez-Naupoto	Date 03/03/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

Mechanical Integrity Test
Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 3 / 1 / 10
Test conducted by: Cole Harris
Others present: _____

Well Name: Odekirk Springs 15-35-8-17 Type: ER SWD Status: AC TA UC
Field: Monument Butte
Location: SW/SE Sec: 35 T 8 N / (S) R 17 (E) / W County: Duchesne State: Ut
Operator: Newfield
Last MIT: / / Maximum Allowable Pressure: _____ PSIG

Is this a regularly scheduled test? [ ] Yes [X] No
Initial test for permit? [X] Yes [ ] No
Test after well rework? [ ] Yes [X] No
Well injecting during test? [ ] Yes [X] No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 psig

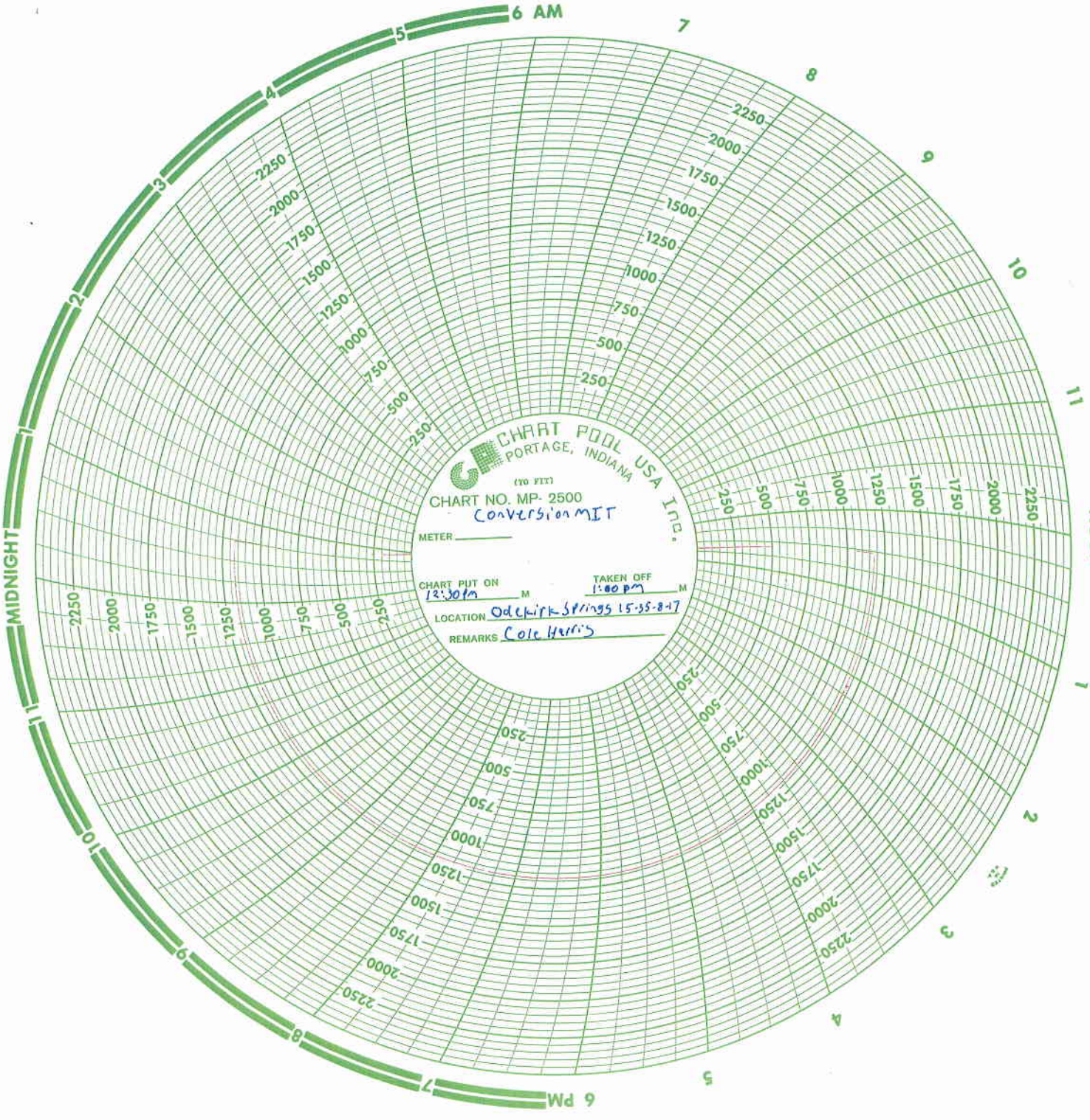
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	250 psig	psig	psig
End of test pressure	250 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1175 psig	psig	psig
5 minutes	1175 psig	psig	psig
10 minutes	1175 psig	psig	psig
15 minutes	1175 psig	psig	psig
20 minutes	1175 psig	psig	psig
25 minutes	1175 psig	psig	psig
30 minutes	1175 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____


6 AM
NOON
MIDNIGHT
6 PM
CHART POOL USA Inc.
PORTAGE, INDIANA
(TO FIT)
CHART NO. MP- 2500
Conversion MIT
METER
CHART PUT ON
12:30 pm
M
TAKEN OFF
1:00 pm
M
LOCATION Oglkirk Springs 15-55-8-17
REMARKS Cole Harris

Daily Activity Report

Format For Sundry

ODEKIRK 15-35-8-17

12/1/2009 To 4/28/2010

2/22/2010 Day: 1 **Conversion**

WWS #7 on 2/22/2010 - LD rod string & pump. - MIRU Western rig #7. RU HO trk to annulus & pump 60 BW @ 250°F. RU pumping unit & unseat rod pump. Flush tbg & rods W/ 30 BW @ 250°F. Re-seat pump, soft joint rod string & strip off flow-T. Fill tbg W/ 5 BW. Pressure test tbg to 3000 psi. Retrieve rod string & unseat pump. TOH & LD rod string & pump. Reflushed W/ add'l 30 bbls halfway out. SIFN.
Daily Cost: $0
Cumulative Cost: $82,405

2/23/2010 Day: 2 **Conversion**

WWS #7 on 2/23/2010 - TOH W/ production tbg. TIH W/ packer and test injection string. - RU HO trk & flush tbg W/ 30 BW @ 250°F. ND wellhead & release TA @ 5848'. NU BOP. TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 49 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 133 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Leave 3000 psi on tbg overnight.
Daily Cost: $0
Cumulative Cost: $18,605

2/24/2010 Day: 3 **Conversion**

WWS #7 on 2/24/2010 - Set & test packer. RDMOSU. - RU Vaughn Energy Services & run Gyro survey on well. - RU HO trk & thaw tbg stump W/ HO trk. Tbg pressure @ - psi. Bump pressure up to 3000 psi. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4313', CE @ 4317' & EOT @ 4321'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Holding solid for 1 hour. RDMOSU. Well ready for MIT.
Daily Cost: $0
Cumulative Cost: $23,390

3/3/2010 Day: 4 **Conversion**

Rigless on 3/3/2010 - MIT On Well - On 1/27/2010 Sarah Bahrman with the EPA was contacted concerning the initial MIT on the above listed well (Odekirk 15-35-8-17). Permission was given at that time to perform the test on 2/8/2010. On 3/1/2010 the csg was pressured up to 1175 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 250 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21212-08316 API# 43-047-33550
Finalized
Daily Cost: $0
Cumulative Cost: $23,690

Pertinent Files: Go to File List

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

APR 0 8 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3 – Box 3630
Myton, UT 84052

RE: Underground Injection Control (UIC)
Limited Authorization to Inject and
Minor Permit Modification
EPA UIC Permit UT21212-08316
Well: Odekirk Springs 15-35-8-17
SWSE Sec. 35-T8S-R17E
Uintah County, Utah
API No.: 43-047-33550

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Dear Mr. Guinn:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) March 3, 2010, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, and calculated pore pressure were reviewed and approved by EPA. These were a part of the Prior to Commencing Injection Requirements for UIC Permit UT21212-08316. Missing from the Prior to Commencing Injection Requirements was a Radioactive Tracer Survey (RTS).

Final Permit UT21212-08316 is modified authorizing the Permittee, as of the date of this letter, to commence injection into Odekirk Springs 15-35-8-17 at a Maximum Allowable Injection Pressure (MAIP) of 1,085 psig for a limited period of 180 days, during which time a RTS is required. If Newfield seeks a higher MAIP than 1,085 psig, it may be advantageous to run a Step Rate Test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of and to comply with all conditions of Permit UT21212-08316.

RECEIVED
APR 15 2010
DIV. OF OIL, GAS & MINING

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174. The RTS log with interpretation should be mailed to Emmett Schmiz at the letterhead address, citing mail code 8P-W-GW.

Sincerely,

for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:
Curtis Cesspooch, Chairman
Ronald Groves, Councilman
Irene Cuch, Vice-Chairwoman
Steven Cesspooch, Councilman
Phillip Chimburas, Councilman
Frances Poowegup, Councilwoman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Ferron Secakuku
Director, Natural Resources
Ute Indian Tribe

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst
Newfield Production Company

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-40026

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: GMBU

1. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER

8. WELL NAME and NUMBER: ODEKIRK SPRINGS 15-35-8-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 4304733550

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER: 435.646.3721

10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 660 FSL, 1980 FEL

COUNTY: UINTAH

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 35, T8S, R17E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
[X] NOTICE OF INTENT (Submit in Duplicate)	[ ] ACIDIZE	[ ] DEEPEN	[ ] REPERFORATE CURRENT FORMATION
Approximate date work will	[ ] ALTER CASING	[ ] FRACTURE TREAT	[ ] SIDETRACK TO REPAIR WELL
04/14/2010	[ ] CASING REPAIR	[ ] NEW CONSTRUCTION	[ ] TEMPORARITLY ABANDON
	[ ] CHANGE TO PREVIOUS PLANS	[ ] OPERATOR CHANGE	[ ] TUBING REPAIR
	[ ] CHANGE TUBING	[ ] PLUG AND ABANDON	[ ] VENT OR FLAIR
[ ] SUBSEQUENT REPORT (Submit Original Form Only)	[ ] CHANGE WELL NAME	[ ] PLUG BACK	[ ] WATER DISPOSAL
Date of Work Completion:	[ ] CHANGE WELL STATUS	[ ] PRODUCTION (START/STOP)	[ ] WATER SHUT-OFF
	[ ] COMMINGLE PRODUCING FORMATIONS	[ ] RECLAMATION OF WELL SITE	[X] OTHER: - Put on Injection
	[X] CONVERT WELL TYPE	[ ] RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 5:00 PM on 04-14-2010.

EPA: UT21212-08316

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE Lucy Chavez-Naupoto DATE 04/15/2010

(This space for State use only)

RECEIVED
APR 20 2010
DIV. OF OIL, GAS & MINING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
Denver, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

NOV 02 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
District Manager
Newfield Production Company
Route 3-Box 3630
Myton, UT 84502

RE: Underground Injection Control (UIC)
Authorization to Continue Injection
EPA UIC Permit UT21212-08316
Well: Odekirk Spring 15-35-8-17
SWSE Sec. 35-T8S-R17E
Uintah County, UT
API No.: 43-047-33550

Dear Mr. Guinn:

The U.S. Environmental Protection Agency (EPA), Region 8, received the results of the September 17, 2010, Radioactive Tracer Survey (RTS) for the Odekirk Spring 15-35-8-17 well. EPA determined the test demonstrates the presence of adequate cement to prevent the upward migration of injection fluids from the injection zone at the Maximum Allowable Injection Pressure (MAIP) of 1,085 psig.

As of the date of this letter, EPA hereby authorizes continued injection into the Odekirk Spring 15-35-8-17 well under the terms and conditions of UIC Permit UT21212-08316.

You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a Step Rate Test (SRT) that measures the formation parting pressure and determines the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director in order to inject at pressures greater than the permitted MAIP during any test. A current copy of EPA guidelines for running and interpreting SRTs will be sent upon request. Should the SRT result in approval of a higher MAIP, a subsequent RTS conducted at the higher MAIP is required.

As of this approval, responsibility for permit compliance and enforcement is transferred to EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Nathan Wiser at the following address, referencing the well name and UIC Permit number on all correspondence:

Mr. Nathan Wiser
U.S. EPA Region 8: 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129

Or, you may reach Mr. Wiser by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211. Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT21212-08316.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174.

Sincerely,

for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:
Frances Poowegup, Vice-Chairwoman
Curtis Cesspooch, Councilman
Phillip Chimburas, Councilman
Stewart Pike, Councilman
Irene Cuch, Councilwoman
Richard Jenks, Jr., Councilman

Daniel Picard
BIA - Uintah & Ouray Indian Agency .

Mike Natchees
Environmental Coordinator
Ute Indian Tribe

Manual Myore
Director of Energy & Minerals Dept.
Ute Indian Tribe

Brad Hill
Acting Associate Director
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
BLM - Vernal Office

Eric Sundberg
Regulatory Analyst
Newfield Production Company

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-40026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)

1. TYPE OF WELL Water Injection Well

8. WELL NAME and NUMBER: ODEKIRK SPRINGS 15-35-8-17

2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY

9. API NUMBER: 43047335500000

3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052

PHONE NUMBER: 435 646-4825 Ext

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0660 FSL 1980 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 35 Township: 08.0S Range: 17.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 2/4/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: 5 YR MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

5 YR MIT performed on the above listed well. On 02/04/2015 the casing was pressured up to 1165 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1372 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-07196

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 05, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lucy Chavez-Naupoto	435 646-4874	Water Services Technician
SIGNATURE N/A		**DATE** 2/5/2015

RECEIVED: Feb. 05, 2015

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 2 / 4 / 2015

Test conducted by: Kane Stevenson

Others present: _____

-07196

Well Name: Oderkirk Springs Type: ER SWD Status: AC TA UC

Field: Monument Butte

Location: 15 Sec 35 T 8 N/S R 17 E/W County: Uintah State: UT

Operator: Newfield Exploration

Last MIT: / / Maximum Allowable Pressure: 1545 PSIG

Is this a regularly scheduled test? [X] Yes [ ] No

Initial test for permit? [ ] Yes [X] No

Test after well rework? [ ] Yes [X] No

Well injecting during test? [X] Yes [ ] No If Yes, rate: 58 bpd

Pre-test casing/tubing annulus pressure: Csg-0 TBG-1172 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	*PRESSURE*		
Initial Pressure	1372 psig	psig	psig
End of test pressure	1372 psig	psig	psig
CASING / TUBING	*ANNULUS*	*PRESSURE*	
0 minutes	1164 psig	psig	psig
5 minutes	1166 psig	psig	psig
10 minutes	1166 psig	psig	psig
15 minutes	1166 psig	psig	psig
20 minutes	1166 psig	psig	psig
25 minutes	1166 psig	psig	psig
30 minutes	1165 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	[X] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? [ ] Yes [X] No

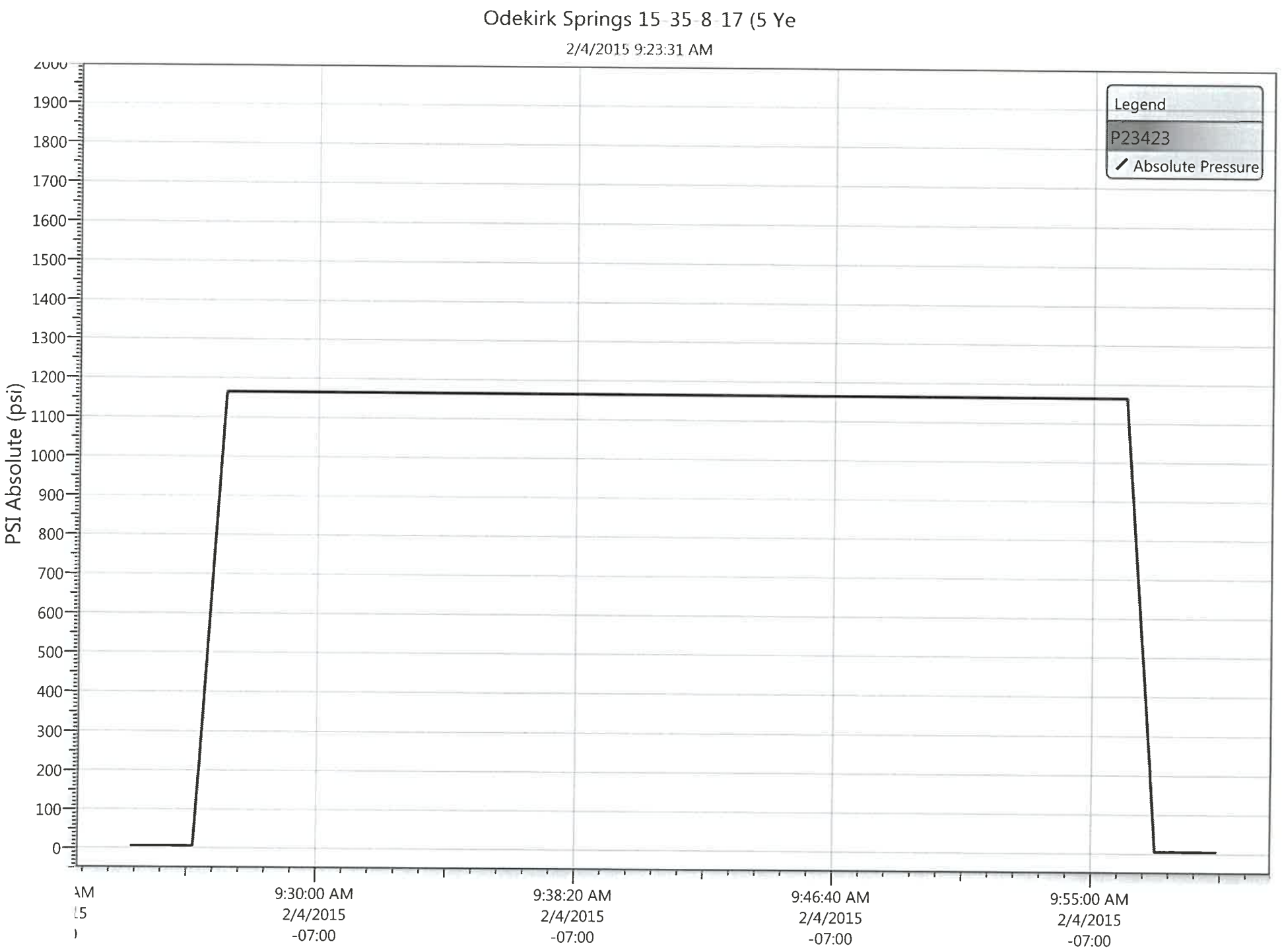
MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

_____

Signature of Witness: _____

Sundry Number: 60533 API Well Number: 43047335500000



Odekirk Springs 15-35-8-17

Spud Date: 4/1/01
Put on Production: 6/18/04
GL: 5054' KB: 5066'

Injection Wellbore Diagram

Initial Production: 172 BOPD, 82 MCFD, 10 BWPD

SURFACE CASING

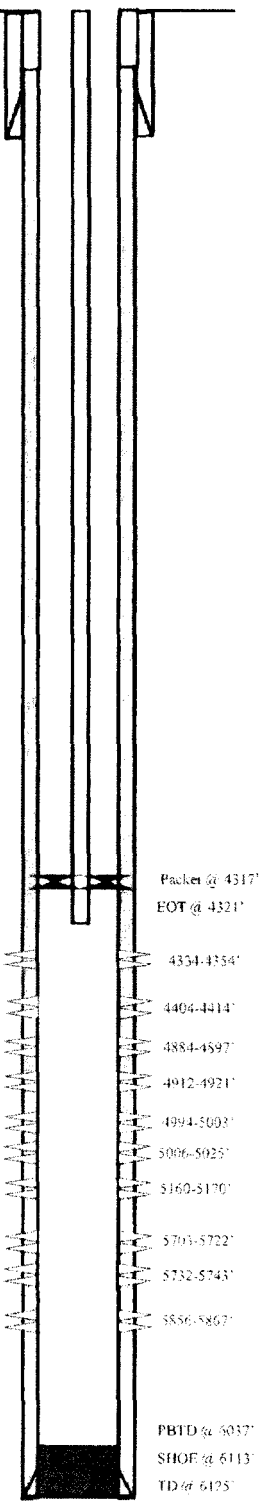
CSG SIZE: 8 5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (296.19')
DEPTH LANDED: 307.19' KB
HOLE SIZE: 12 1/4"
CEMENT DATA: 145 sxs Class "G" mixed cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5 1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 143 jts. (6113.68')
DEPTH LANDED: 6111.68' KB
HOLE SIZE: 7 7/8"
CEMENT DATA: 275 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ mix.
CEMENT TOP AT: 113'

TUBING

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#
NO. OF JOINTS: 133 jts (4301')
SEATING NIPPLE: 2 7/8" (1.10')
SN LANDED AT: 4313'
PACKER CE @ 4317'
TOTAL STRING LENGTH: EOT @ 4321' w/ 12' KB



FRAC JOB

6/10/04	5856-5867'	**Frac CP4 sands as follows:** 20,925# 20/40 sand in 298 bbls lightning Frac 17 fluid. Treated @ avg press of 1760 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 5854 gal. Actual flush: 5897 gal.
6/10/04	5703-5743'	**Frac CP2 sands as follows:** 98,952# 20/40 sand in 718 bbls lightning Frac 17 fluid. Treated @ avg press of 1530 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc flush: 5701 gal. Actual flush: 5699 gal.
6/10/04	5160-5170'	**Frac B2 sands as follows:** 40,129# 20/40 sand in 378 bbls lightning Frac 17 fluid. Treated @ avg press of 1670 psi w/avg rate of 24.8 BPM. ISIP 1750 psi. Calc flush: 5158 gal. Actual flush: 5158 gal.
6/10/04	4994-5025'	**Frac C sands as follows:** 119,457# 20/40 sand in 825 bbls lightning Frac 17 fluid. Treated @ avg press of 1500 psi w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc flush: 4992 gal. Actual flush: 5032 gal.
6/10/04	4884-4921'	**Frac D2 sands as follows:** 90,832# 20/40 sand in 655 bbls lightning Frac 17 fluid. Treated @ avg press of 1871 psi w/avg rate of 24.7 BPM. ISIP 1980 psi. Calc flush: 4882 gal. Actual flush: 4880 gal.
6/10/04	4334-4414'	**Frac GB6 and 4 sands as follows:** 115,335# 20/40 sand in 800 bbls lightning Frac 17 fluid. Treated @ avg press of 2150 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 4332 gal. Actual flush: 4242 gal.
12/01/06		**Parted Rods**: Updated Rod & Tubing Detail
7/27/07		**Parted rods**. Updated rod & tubing detail
4/30/09		**Pump Change.** Updated r & t details.
2/24/10		**Convert to Injection well**
3/1/10		**MIT completed** – update tbg detail

PERFORATION RECORD

6/06/04	5856-5867'	4 JSPF	44 holes
6/10/04	5732-5743'	4 JSPF	44 holes
6/10/04	5703-5722'	4 JSPF	76 holes
6/10/04	5160-5170'	4 JSPF	40 holes
6/10/04	5006-5025'	4 JSPF	76 holes
6/10/04	4994-5003'	4 JSPF	36 holes
6/10/04	4912-4921'	4 JSPF	36 holes
6/10/04	4884-4897'	4 JSPF	52 holes
6/10/04	4404-4414'	4 JSPF	40 holes
6/10/04	4334-4354'	4 JSPF	40 holes

NEWFIELD

Odekirk Springs 15-35-8-17

660' FSL & 1980' FEL

SW/SE Section 35-T8S-R17E

Uintah Co, Utah

API #43-047-33550; Lease #UTU-40026

LCN 03-03-10